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The Institution of Mechanical Engineers.

ESTABLISHED 1847.

LIST OF MEMBERS.

MARCH 1902.

ARTICLES AND BY-LAWS.

The Institution of Mechanical Engineers.

ESTABLISHED 1847.

LIST OF MEMBERS, &c.

MARCH 1902.

CONTENTS.

	PAGE
PAST-PRESIDENTS	2
OFFICERS FOR 1902	3
MEMBERS	5–155
Honorary Life Members	5
Members	6
Associate Members	101
Associates	139
Graduates	143
TOPOGRAPHICAL LIST OF MEMBERS	157
ARTICLES AND BY-LAWS, &c.	181

The Institution of Mechanical Engineers.

PAST-PRESIDENTS.

George Stephenson, 1847–48. (*Deceased* 1848.)

Robert Stephenson, F.R.S., 1849–53. (*Deceased* 1859.)

Sir William Fairbairn, Bart., LL.D., F.R.S., 1854–55. (*Deceased* 1874.)

Sir Joseph Whitworth, Bart., D.C.L., LL.D., F.R.S., 1856–57, 1866. (*Deceased* 1887.)

John Penn, F.R.S., 1858–59, 1867–68. (*Deceased* 1878.)

James Kennedy, 1860. (*Deceased* 1886.)

The Right Hon. Lord Armstrong, C.B., D.C.L., LL.D., F.R.S., 1861–62, 1869. (*Deceased* 1900.)

Robert Napier, 1863–65. (*Deceased* 1876.)

John Ramsbottom, 1870–71. (*Deceased* 1897.)

Sir William Siemens, D.C.L., LL.D., F.R.S., 1872–73. (*Deceased* 1883.)

Sir Frederick J. Bramwell, Bart., D.C.L., LL.D., F.R.S., 1874–75.

Thomas Hawksley, F.R.S., 1876–77. (*Deceased* 1893.)

John Robinson, 1878–79.

Edward A. Cowper, 1880–81. (*Deceased* 1893.)

Percy G. B. Westmacott, 1882–83.

Sir Lowthian Bell, Bart., LL.D., F.R.S., 1884.

Jeremiah Head, 1885–86. (*Deceased* 1899.)

Sir Edward H. Carbutt, Bart., 1887–88.

Charles Cochrane, 1889. (*Deceased* 1898.)

Joseph Tomlinson, 1890–91. (*Deceased* 1894.)

Sir William Anderson, K.C.B., D.C.L., F.R.S., 1892–93. (*Deceased* 1898.)

Professor Alexander B. W. Kennedy, LL.D., F.R.S., 1894–95.

E. Windsor Richards, 1896–97.

Samuel Waite Johnson, 1898.

Sir William H. White, K.C.B., LL.D., D.Sc., F.R.S., 1899–1900.

The Institution of Mechanical Engineers.

OFFICERS.

1902.

PRESIDENT.

William H. Maw,	London.

PAST-PRESIDENTS.

Sir Lowthian Bell, Bart., LL.D., F.R.S.,	Northallerton.
Sir Frederick J. Bramwell, Bart., D.C.L., LL.D., F.R.S.,	London.
Sir Edward H. Carbutt, Bart.,	London.
Samuel Waite Johnson,	Derby.
Professor Alexander B. W. Kennedy, LL.D., F.R.S.,	London.
E. Windsor Richards,	Caerleon.
John Robinson,	Leek.
Percy G. B. Westmacott,	Ascot.
Sir William H. White, K.C.B., LL.D., D.Sc., F.R.S.,	London.

VICE-PRESIDENTS.

John A. F. Aspinall,	Manchester.
Arthur Keen,	Birmingham.
Edward P. Martin,	Dowlais.
T. Hurry Riches,	Cardiff.
A. Tannett-Walker,	Leeds.
J. Hartley Wicksteed,	Leeds.

MEMBERS OF COUNCIL.

Sir Benjamin Baker, K.C.M.G., LL.D., D.Sc., F.R.S.,	London.
Sir J. Wolfe Barry, K.C.B., LL.D., F.R.S.,	London.
Henry Chapman,	London.
Henry Davey,	London.
William Dean,	Swindon.
Edward B. Ellington,	London.
H. Graham Harris,	London.
Henry A. Ivatt,	Doncaster.
Henry Lea,	Birmingham.
Sir William T. Lewis, Bart.,	Aberdare.
James Mansergh, F.R.S.,	London.
Henry D. Marshall,	Gainsborough.
The Right Hon. William J. Pirrie, LL.D.,	Belfast.
Samuel R. Platt,	Oldham.
Sir Thomas Richardson,	Hartlepool.
John F. Robinson,	Glasgow.
Mark H. Robinson,	Rugby.
John W. Spencer,	Newcastle-on-Tyne.
John I. Thornycroft, LL.D., F.R.S.,	London.
John Tweedy,	Newcastle-on-Tyne.
Henry H. West,	Liverpool.

HON. TREASURER.

Harry Lee Millar.

AUDITOR.

Robert A. McLean, F.C.A.

SECRETARY.

Edgar Worthington,

The Institution of Mechanical Engineers,
Storey's Gate, St. James's Park, Westminster, S.W.

Telegraphic address:—*Mech, London.* Telephone:—*Westminster*, 264.

The Institution of Mechanical Engineers.

ESTABLISHED 1847.

LIST OF MEMBERS,

WITH YEAR OF ELECTION.

[*Telegraph Address and Telephone No. appended within brackets.*]

MARCH 1902.

HONORARY LIFE MEMBERS.

1890. HIS MOST GRACIOUS MAJESTY KING EDWARD THE SEVENTH.

1899. H.R.H. George, Prince of Wales, K.G., K.T., K.P., &c., York House, St. James's Palace, London, S.W.

1892. Field Marshal H.R.H. the Duke of Cambridge, K.G., K.T., K.P., G.C.B., G.C.S.I., &c., Gloucester House, Park Lane, London, W.

1883. Abel, Sir Frederick Augustus, Bart., G.C.V.O., K.C.B., D.C.L., D.Sc., F.R.S., The Imperial Institute, Imperial Institute Road, London, S.W.; and 2 Whitehall Court, London, S.W. [*Imperial Institute, London.* Kensington 743.]

1878. Crawford and Balcarres, The Right Hon. the Earl of, K.T., F.R.S., 2 Cavendish Square, London, W.; Haigh Hall, Wigan; and Observatory, Dunecht, Aberdeen.

1889. Eiffel, Gustave, 37 Rue Pasquier, Paris.

1901. Kelvin, The Right Hon. Lord, G.C.V.O., D.C.L., LL.D., F.R.S., Netherhall, Largs, Ayrshire.

1883. Kennedy, Alexander Blackie William, LL.D., F.R.S., Emeritus Professor of Engineering, University College, London, 17 Victoria Street, Westminster, S.W. [*Kinematic, London.*]

1878. Rayleigh, The Right Hon. Lord, F.R.S., 4 Carlton Gardens, London, S.W.; and Terling Place, Witham, Essex.

1897. Roberts-Austen, Sir William Chandler, K.C.B., D.C.L., F.R.S., Professor of Metallurgy, Royal College of Science; Chemist of the Royal Mint, Tower Hill, London, E.

1888. Rosse, The Right Hon. the Earl of, K.P., D.C.L., LL.D., F.R.S., Birr Castle, Parsonstown, Ireland.

1896. Unwin, William Cawthorne, F.R.S., Professor of Engineering, City and Guilds of London Central Institution, Exhibition Road, London, S.W.; and 7 Palace Gate Mansions, Kensington, London, W.

MEMBERS.

1896. Abady, Jacques, Messrs. Alexander Wright and Co., 81 Page Street, Westminster, S.W. [*Precision, London.* Westminster 337.]

1890. Abbott, Arthur Harold, care of Messrs. Octavius Steel and Co., Calcutta, India.

1878. Abbott, Thomas, Newark Boiler Works, Newark [*Abbott, Newark.*]; and The Square, Retford.

1861. Abel, Charles Denton, Messrs. Abel and Imray, Birkbeck Bank Chambers, Southampton Buildings, London, W.C. [*Patentable, London.* Holborn 109.]

1894. Accles, William Sloane, 25 Victoria Street, Westminster, S.W. [*Niliacus, London.* Westminster 486.]

1892. Acland, Captain Francis Edward Dyke, 76 Cheapside, London, E.C. [*Onager, London.* Bank 5252.]

1897. Adams, Edwin, Messrs. Hulse and Co., Ordsal Works, Regent Bridge, Salford, Manchester.

1876. Adams, Henry, Messrs. Adams and Williams, 60 Queen Victoria Street, London, E.C. [*Viburnum, London.* Bank 6006.]

1881. Adams, William John, 35 Queen Victoria Street, London, E.C. [*Packing, London.* Bank 38.]

1900. Adamson, Charles John, Ecclestone, 8 Radford Road, Lewisham, London, S.E.

1897. Adamson, Daniel, Works Manager, Messrs. Joseph Adamson and Co., Hyde, near Manchester. [*Adamson, Hyde.* Nat. Tel. 13.]

1871. Adamson, Joseph, Messrs. Joseph Adamson and Co., Hyde, near Manchester. [*Adamson, Hyde.* Nat. Tel. 13.]

1889. Addy, George, Waverley Works, Sheffield. [*Milling, Sheffield.* 985.]

1887. Ahmed Pasha, Rear Admiral, Engineer-in-Chief and Head of Technical Inspecting Commission, Imperial Naval Arsenal, Constantinople.

1891. Ahrbecker, Henry Conrad Vandepoel, Mort's Dock and Engineering Co. Balmain, Sydney, New South Wales.

1895. Ahrons, Ernest Leopold, Simon-Carves Bye-Product Coke-Oven Construction and Working Co., 20 Mount Street, Manchester.

1893. Ainley, Henry, Messrs. Platt Brothers and Co., Hartford Iron Works, Oldham.

1900. Aitken, Hugh Wallace, 140 Bath Street, Glasgow. [*Sugarcane, Glasgow.*]

1900. Aiton, John Arthur, Western Works, Hythe Road, Willesden Junction, London, N.W. [Harlesden 88.]

1898. Akers, Charles Henry, Hacienda Chocola, Mazatenango, Guatemala.

1901. Akroyd-Stuart, Herbert, P.O. Box 50, Fremantle, Western Australia.

1885. Alderson, George Beeton, Messrs. Allen, Alderson and Co., Alexandria, Egypt; Norland House, Ramleh, Alexandria, Egypt: (or care of Messrs. Stafford Allen and Sons, 7 Cowper Street, Finsbury, London, E.C.)

1881. Alexander, Edward Disney, Milton House, Northampton.

1875. Allan, George, Bowesfield Steel Co., Stockton-on-Tees.

1885. Allcard, Harry, Messrs. Easterbrook Allcard and Co., Albert Works, Penistone Road, Sheffield.

1874. Allen, Francis, Messrs. Allen Alderson and Co., Gracechurch Street, Alexandria, Egypt: (or care of Messrs. Stafford Allen and Sons, 7 Cowper Street, Finsbury, London, E.C.)

1891. Allen, Marcus, Union Brass and Iron Works, Great Ancoats Street, and Phœnix Iron Works, Jersey Street, Manchester [*Valves, Manchester. Nat.* 60.]; and The Nest, Knutsford.

1881. Allen, Percy Ruskin, Castner-Kellner Alkali Co., Weston Point, Runcorn; and Ferncliffe, Higher Runcorn, Cheshire.

1900. Allen, Richard William, Messrs. W. H. Allen, Son and Co., Queen's Engineering Works, Bedford. [*Pump, Bedford.*]

1885. Allen, William Henry, Messrs. W. H. Allen Son and Co., York Street Works, Lambeth, London, S.E. [*Pump, London.*]; and Queen's Engineering Works, Bedford. [*Pump, Bedford.*]

1882. Allen, William Milward, Principal Assistant Engineer, Engine Boiler and Employers' Liability Insurance Co., 12 King Street, Manchester.

1899. Alley, Stephen Evans, Manager, Messrs. Alley and MacLellan, Sentinel Works, Polmadie Road, Glasgow; and 8 Woodside Terrace, Glasgow. [*Alley, Glasgow.* Royal 673.]

1865. Alleyne, Sir John Gay Newton, Bart., Chevin, Belper.

1884. Alleyne, Reynold Henry Newton, North Wootton, King's Lynn.

1872. Alliott, James Bingham, Messrs. Manlove Alliott and Co., Bloomsgrove Works, Ilkeston Road, Nottingham. [*Manloves, Nottingham.*]

1891. Allott, Charles Sneath, 46 Brown Street, Manchester. [*Allotted, Manchester. Nat.* 1952.]

1871. Allport, Howard Aston, Dodworth Grove, Barnsley.

1884. Almond, Harry John, General Manager, La Guaira and Caracas Railway, Caracas, Venezuela: (or care of Messrs. G. and W. Almond, 67 Willow Walk, London, S.E.)

1894. Ambler, Frank, Resident Engineer, Alagoas Railway, Maceio, Brazil.

1885. Amos, Ewart Charles, Mansion House Chambers, 11 Queen Victoria Street, London, E.C.; and Eastdene, Grange Road, Sutton, Surrey. [*Drilling, London.* Bank 4438.]

1891. Anderson, Alexander Southerland, Chief Engineer, Ordnance Department, Ordnance Factory, Cawnpore, India.

1880. Anderson, Edward William, Lesney, Warwick Road, Solihull, Birmingham.

1900. Anderson, Eugene Ernest James, Engineer, Corporation Gas Works, Middleton, Manchester.

1890. Anderson, Herbert William, Fairfield, Broom Road, Teddington, S.O., Middlesex.

1901. Anderson, John Reid, 13 Charles Street, St. James's, London, S.W.

1892. Anderson, John Wemyss, University College, Liverpool.

1894. Anderson, Tom Scott, Royal Insurance Buildings, Sheffield; and 8 Southbourne Road, Victoria Park, Sheffield.

1891. Anderson, William, Messrs. Head Wrightson and Co., Teesdale Iron Works, Stockton-on-Tees.

1901. Andlau, William Ferdinand von, P.O. Box 51, Gibraltar.

1899. Andrew, George Edward, Engineer, R.N., H.M.S. "Formidable," Mediterranean Squadron.

1895. Andrews, Thomas, Messrs. Andrews and Baby, Welsh Wagon Works, East Moors, Cardiff. [*Wagons, Cardiff.* 693.]

1902. Andrews, Thomas, Messrs. Harland and Wolff, Belfast; and 31A Wellington Place, Belfast.

1893. Angas, William Moore, Jacksonville, Florida, United States: (or care of G. Douglas Angas, Neswick, Bainton, Hull.)

1885. Anson, Frederick Henry, 15 Dean's Yard, Westminster, S.W.

1899. Appleby, George William, care of Imperial Maritime Customs, Kowloon, Hong Kong, China.

1883. Appleby, Percy Vavasseur, London Steam Crane and Engine Works, Grafton Place, Leicester.

1901. Arakawa, Shinichiro, Consulting Engineer to Japanese Government, 330 Kitano, Osaka, Japan.

1874. Aramburu y Silva, Fernando, Almagro 32, Madrid.

1882. Armer, James, Messrs. John Birch and Co., 11 Queen Street Place, London, E.C.

1894. Armour, James Glencairn, Queen Insurance Buildings, 13 Castle Street, Liverpool. [*Area, Liverpool.* 2413.]

1876. Armstrong, William, Jun., Mining Engineer, Wingate Colliery, County Durham.

1870. Armstrong, William Irving, Timber Works and Saw Mills, 17 North Bridge Street, Sunderland.

1898. Arnold, Joseph Albert, Messrs. Eastwood, Swingler and Co., Victoria and Railway Iron Works, Derby. [*Swingler, Derby.* 150.]

1897. Arnold, William, 15 Bearwood Road, Birmingham.

1894. Arnot, William, 79 West Regent Street, Glasgow. [*Induction, Glasgow.* 5341.]

1887. Arrol, Sir William, M.P., LL.D., Dalmarnock Iron Works, Glasgow.

1887. Arteaga, Alberto de, 1320 Artes, Buenos Aires, Argentine Republic: (or care of M. Raggio-Carneiro, 55 and 56 Bishopsgate Street Within, London, E.C.)

1901. Ash, Alfred Ellis, Works Manager, Vauxhall Iron Works, Wandsworth Road, London, S.W.; and 49 Studley Road, Clapham, London, S.W.

1873. Ashbury, Thomas (*Life Member*), 17 St. Ann's Square, Manchester; and Ash Grove, Victoria Park, Longsight, Manchester. [*Thomas Ashbury, Manchester.*]

1888. Ashby, George, Messrs. N. Wadia and Sons, Cumballa Hill, Bombay, India.

1895. Ashcroft, Andrew George, City and Guilds of London Central Institution, Exhibition Road, London, S.W.; and 1 Gainsborough Road, Bedford Park, London, W.

1889. Ashford, John, Peel House, New Lane, Patricroft, Manchester.

1891. Ashworth, Henry, Brynderwen, Bwlch, R.S.O., Breconshire.

1890. Askham, John Unwin, Messrs. Askham Brothers and Wilson, Yorkshire Steel Works, Napier Street, Sheffield.

1890. Askham, Philip Unwin, Messrs. Askham Brothers and Wilson, Yorkshire Steel Works, Napier Street, Sheffield.

1881. Aspinall, John Audley Frederick, General Manager, Lancashire and Yorkshire Railway, Hunt's Bank, Manchester; and Gledhill, Mossley Hill Drive, Liverpool.

1891. Asplen, Bernard, Southall: (or care of W. W. Asplen, Foxton Hall, Royston, Cambridgeshire.)

1877. Astbury, James, Smethwick Foundry, near Birmingham.

1890. Aston, John W., Messrs. Belliss and Morcom, Ledsam Street, Birmingham; and Municipal Technical School, Birmingham.

1899. Atherton, Thomas, Dallam Forge, Warrington; and Folly Lane, Warrington.

1889. Atkinson, Alexander, Lahore, Punjaub, India.

1890. Atkinson, Edward Turner, London County Council, Spring Gardens, London, S.W.

1900. Atkinson, Frederick Arthur, Messrs. Evans, O'Donnell and Co., 9 Palace Chambers, Westminster, S.W.

1892. Atkinson, James, Benavie, Station Road, Marple, near Stockport.

1897. Atsumi, Sadamoto, 26 Nishino-cho, Unagitani, Osaka, Japan.

1898. Attwood, Jabez, Foster Street, Stourbridge; and Hagley Road, Stourbridge. [*Attwoods, Stourbridge.*]

1892. Ault, Edwin, 47 Victoria Street, Westminster, S.W.

1892. Austin, James Meredith, 11 Emperor's Gate, London, S.W.

1894. Aveline, William Rebotier, Shell Transport and Trading Co., 16 Leadenhall Street, London, E.C.

1882. Aveling, Thomas Lake, Messrs. Aveling and Porter, Rochester. [*Aveling, Rochester.*]

1897. Avery, William Beilby (*Life Member*), Messrs. W. and T. Avery, Soho Foundry and Digbeth, Birmingham; and Oakley Court, Windsor.

1899. Awdry, Walter Llewellyn, 33 Union Street, Birmingham. [1806.]

1897. Back, Arthur Charles Lemprière, Devon and Cornwall Ice and Cold Storage Co., Plymouth.

1891. Bagshaw, Walter, Victoria Foundry, Batley.

1899. Baguley, Ernest Edwin, Manager, Messrs. W. G. Bagnall, Castle Engine Works, Stafford.

1885. Bailey, Sir William Henry, Albion Works, Salford, Manchester [*Beacon, Salford.*]; and Sale Hall, Cheshire.

1899. Bailey, William Seybourne, 17 Praya Central, Hong Kong, China.

1901. Bailie, John David, 23 Park Row, Leeds. [*Turbo, Leeds.* 1194.]

1872. Bailly, Philimond, 282 Rue Royale, Bruxelles, Belgium.

1890. Bain, George, Locomotive Department, Egyptian Government Railways, Cairo, Egypt.

1880. Bain, William Neish, 40 St. Enoch Square, Glasgow; and Collingwood, 7 Aytoun Road, Pollokshields, Glasgow. [*Glacis, Glasgow.*]

1869. Bainbridge, Emerson, Nunnery Colliery Offices, New Haymarket, Sheffield; and 4 Whitehall Court, London, S.W.

1898. Baister, Charles, Locomotive Engineer, North Eastern Railway, Darlington.

1890. Baker, Sir Benjamin, K.C.M.G., LL.D., D.Sc., F.R.S. (*Life Member*), 2 Queen Square Place, Westminster, S.W.

1897. Baker, George Samuel, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.W. [*Mapleleaf, London.* Harlesden 3.]

1896. Baker, William Henry, Superintendent of Works, Residency Post Office, Gwalior, Central India.

1893. Baldwin, Alfred, M.P., Wilden Iron Works, Stourport.

1894. Baldwin, Arthur Hugh, Messrs. Kendall and Gent, Victoria Works, Belle Vue, Manchester. [*Tools, Manchester.* 5147.]

1877. Bale, Manfred Powis, Appold Street, Finsbury, London, E.C.

1897. Balkwill, Alfred John, Messrs. Goodbrand and Co., Britannia Foundry, Stalybridge.

1898. Bamford, Robert George, Assistant Locomotive Superintendent, Madras Railway, Perambore Works, Madras, India.

1887. Bamlett, Adam Carlisle, Agricultural Engineering Works, Thirsk.

1898. Bancroft, Francis James, Water Engineer, Town Hall, Hull.

1901. Banham, Charles Procter, Table Bay Harbour Works, Cape Town, Cape Colony.

1901. Banister, Alan Neville, Engineer and Manager, Norwich Electric Tramways, St. Stephen's Chambers, Norwich. [*Tramways, Norwich.* 475.]

1892. Banister, George Henry, Ordnance Department, Messrs. Vickers, Sons and Maxim, Barrow-in-Furness.

1899. Banks, George, Assistant Carriage and Wagon Superintendent, Lancashire and Yorkshire Railway, Newton Heath, Manchester; and Montford, Altrincham.

1901. Barber, John Watkins, South Eastern and Chatham Railway, Longhedge Works, Battersea Park, London, S.W.

1898. Barber, Thomas Walter, 17 and 18 Tothill Street, Westminster, S.W.; and 5 Palmer Street, Westminster, S.W.

1888. Barker, Eric Gordon, Locomotive Superintendent, Wirral Railway, Dock Station, Birkenhead; and Yew Tree House, near Neston, S.O., Cheshire.

1899. Barker, Gerald, 1 Victoria Street, Westminster, S.W.

1896. Barker, Matthew Wilson, Clifton, Hartington Road, Chiswick, London, W.

1885. Barker, Tom Birkett, Westfield, Knowle, Warwickshire.

1899. Barley, Clement Johnson, London Electric Supply Corporation, Stowage Wharf, Deptford, London, S.E.

1900. Barman, Harry Drummond Dawson, Airdrie Iron Works, Airdrie. [*Iron, Airdrie.* 6.]

1891. Barnes, John Edward Lloyd, Messrs. Sloan and Lloyd Barnes, 34 Castle Street, Liverpool. [*Technical, Liverpool.* 6080.]

1881. Barnett, John Davis, Assistant Mechanical Superintendent, Grand Trunk Railway, Stratford, Ontario, Canada.

1887. Barningham, James, 41 Victoria Buildings, Victoria Street, Manchester.

1884. Barr, Archibald, D.Sc., Professor of Engineering, The University, Glasgow.

1887. Barringer, Herbert, 78 Gracechurch Street, London, E.C.

1862. Barrow, Joseph, Messrs. Thomas Shanks and Co., Johnstone, near Glasgow. [*Shanks, Johnstone.*]

1871. Barry, Sir John Wolfe, K.C.B., LL.D., F.R.S., 21 Delahay Street, Westminster, S.W. [*Consilium, London.* Westminster 24.]

1883. Bartlett, James Herbert, Middlesbrough, Kentucky, United States.

1899. Bashforth, Andrew, Messrs. Sanderson Brothers and Co., Sheffield.

1887. Bate, Lt.-Colonel Charles McGuire, R.E., Ordnance Committee, Woolwich.

1896. Bateman, James Thomas, Fair View, Bebington, near Birkenhead.

1891. Bates, Henry, Messrs. Hulse and Co., Ordsal Works, Regent Bridge, Salford, Manchester; and 30 Halliwell Terrace, Trafford Road, Salford, Manchester.

1892. Baxter, Peter Macleod, Messrs. McKie and Baxter, Copland Works, Govan, Glasgow.

1899. Bayley, George Ridley, Resident Engineer and Manager, Liverpool Hydraulic Power Co., 123 Athol Street, Liverpool, N.

1872. Bayliss, Thomas Richard, Belmont, Northfield, Birmingham.

1891. Baynes, John, 53 Victoria Street, Westminster, S.W.

1899. Beale, Bertram Robert, Managing Director, The Fownes Forge and Engineering Co., 37 Lime Street, London, E.C. [*Ultroneus, London.* Avenue 1874.]

1898. Beard, Arthur Charles, London County Council, Spring Gardens, London, S.W.

1895. Beard, Bernard, Messrs. Ashmore, Benson, Pease and Co., Stockton-on-Tees.

1887. Beardmore, William, Parkhead Forge and Steel Works, Glasgow.

1893. Beare, Thomas Hudson, F.R.S.E., Professor of Engineering, The University, Edinburgh.

1891. Beatty, Hazlitt Michael, Chief Locomotive Superintendent, Cape Government Railways, Cape Town, Cape Colony; and Rosclare Camp Ground, Rondebosch, near Cape Town, Cape Colony.

1899. Beaumont, Roberts, Professor of Textile Industries, Yorkshire College, Leeds.

1880. Beaumont, William Worby, Outer Temple, 222 Strand, London, W.C. [*Vibromotor, London.* Gerrard 4160.]

1859. Beck, Edward (*Life Member*), Heddon House, Isleworth.

1901. Beck, Isaac, 17 Haymarket, Sheffield. [*Beck, Engineer, Sheffield.*]

1873. Beck, William Henry, 115 Cannon Street, London, E.C.

1882. Bedson, Joseph Phillips, Newton House, Hyde, near Manchester.

1875. Beeley, Thomas, Messrs. Thomas Beeley and Son, Hyde Junction Iron Works, Hyde, near Manchester. [*Beeley, Hyde.*]

1899. Beeley, Thomas Carter, Messrs. Thomas Beeley and Son, Hyde Junction Iron Works, Hyde, near Manchester. [*Beeley, Hyde.*]

1898. Beesly, Gerald, Managing Director, Tubes Co., Credenda Works, Bridge Street, Smethwick, Birmingham; and 14 Frederick Road, Edgbaston, Birmingham.

1901. Behr, Hans Charles, Consolidated Gold Fields of South Africa, P.O. Box 1167, Johannesburg, Transvaal, South Africa.

1888. Beldam, Asplan, 93–94 Gracechurch Street, London, E.C.; and Elmwood Manor, Baldock, Herts.

1885. Bell, Charles Lowthian, Clarence Iron Works, Middlesbrough; and Linthorpe, Middlesbrough. [*Bells, Middlesbrough.* 5510.]

1897. Bell, Major Charles Thornhill, R.A., Superintendent, Gun Carriage Factory, Madras, India.

1901. Bell, Edwin, Fort Monckton, Gosport.

1858. Bell, Sir Lowthian, Bart., LL.D., F.R.S., Clarence Iron Works, Middlesbrough; Rounton Grange, Northallerton; and Reform Club, Pall Mall, London, S.W. [*Sir Lowthian Bell, Middlesbrough.*]

1897. Bellamy, Alfred Rowe, Managing Director, Messrs. J. E. H. Andrew and Co., Reddish, near Stockport.

1868. Belliss, George Edward, Messrs. Belliss and Morcom, Ledsam Street, Birmingham [*Belliss, Birmingham.*]; and The Dell, King's Norton, near Birmingham.

1897. Belliss, John, Messrs. Belliss and Morcom, Ledsam Street, Birmingham. [*Belliss, Birmingham.*]

1878. Belsham, Maurice, Messrs. Price and Belsham, 52 Queen Victoria Street, London, E.C.

1895. Benn, Sykes, Messrs. S. S. Stott and Co., Haslingden, near Manchester. [*Elevator, Haslingden.* 103.]

1902. Bennett, Arthur Edward, Messrs. Webster and Bennett, Atlas Works, Coventry; and Woodheys, Elms Road, Leicester. [*Profile, Coventry.* 221.]

1894. Bennett, James William, Messrs. Taylor and Lawson, Engineering Works, Batavia; and Harwood, Branksome Park, Bournemouth.

1900. Bennie, Peter, Agencia de Tharsis, Huelva, Spain.

1895. Bennington, John William, Fleet Engineer, R.N., Eastleigh, Festing Grove, Southsea, Portsmouth.

1895. Bennion, Charles, Messrs. Pearson and Bennion, Union Works, Leicester; and Danes Hill House, Hinckley Road, Leicester. [*Prominent, Leicester.* 103.]

1895. Bennis, Alfred William, Messrs. E. Bennis and Co., 28 Victoria Street, Westminster, S.W.

1894. Bentley, George, Messrs. Bentley and Jackson, Lodge Bank Works, Bury, Lancashire.

1896. Bentley, Wallace, Royal Insurance Buildings, Crossley Street, Halifax.

1895. Berchem, Alphonse Henry Emanuel, Worthington Pumping Engine Co., 153 Queen Victoria Street, London, E.C.

1878. Berrier-Fontaine, Marc, Directeur du Génie Maritime, Adjoint à l'Inspecteur Général, Ministère de la Marine, Paris.

1893. Berry, Henry, Croydon Works, Leeds.

1893. Berry, John Ferrier, care of Messrs. Howard Farrar and Co., P. O. Box 455, Johannesburg, Transvaal, South Africa.

1897. Berthiez, Charles, 53 Blücher Strasse, Düsseldorf, Germany.

1891. Bertram, David Noble, Messrs. Bertrams, St. Katherine's Works, Sciennes, Edinburgh.

1891. Best, Francis Edward, 1 Swan Walk, Chelsea Embankment, London, S.W.

1899. Beswick, Frederick Arrowsmith, Manchester Steam Users' Association, 9 Mount Street, Manchester.

1893. Betts, Samuel, Locomotive Superintendent, Oxelösund-Fleu-Westmanlands Railway, Eskilstuna, Sweden.

1899. Beven, Alfred Nugent, Locomotive Superintendent, Junin Railway Co., Junin, Chile.

1891. Bevis, Alfred William, Head Organizer for Drawing and Hand and Eye Training to the Commissioners of National Education, Ireland: The Nest, 26 Sydney Avenue, Blackrock, Dublin.

1885. Bicknell, Arthur Channing, 9 Westbourne Park Road, London, W.

1884. Bika, Léon Joseph, Locomotive Engineer-in-Chief, Belgian State Railway, 29 Rue des Palais, Bruxelles, Belgium.

1898. Bilbie, John, Messrs. Bilbie, Hobson and Co., 80 Queen Victoria Street, London, E.C.

1899. Biles, John Harvard, Professor of Naval Architecture, The University, Glasgow.

1897. Billetop, Torben Christian, Messrs. Henry Watson and Son, High Bridge Works, Newcastle-on-Tyne.

1888. Billinton, Robert John, Locomotive Superintendent, London Brighton and South Coast Railway, Brighton.

1887. Binnie, Sir Alexander Richardson, 9 Great George Street, Westminster, S.W.; and 77 Ladbroke Grove, Notting Hill, London, W.

1891. Bird, George, Messrs. James Bartle and Co., Western Iron Works, Notting Hill, London, W.

1897. Bird, William Hobart, The Beeches, Beauchamp Hill, Leamington.

1880. Birkett, Herbert, 91 Victoria Street, Westminster, S.W.

1896. Black, Peter Blair, 185 Palmerston Buildings, Old Broad Street, London, E.C. [*Blackness, London.*]

1879. Black, William, 1 Lovaine Place, Newcastle-on-Tyne.

1891. Blackburn, Arthur Henry, Fuel Economizer Co., Matteawan, New York, United States.

1891. Blackburn, George William, Messrs. T. Green and Son, Smithfield Iron Works, Leeds.

1890. Blackburn, John, Resident Engineer, Colne Valley Water Works, Bushey, Watford.

1898. Blackstone, Edward Christopher, Managing Director, Messrs. Blackstone and Co., Rutland Engineering Works, Stamford. [*Blackstones, Stamford.*]

1901. Blake, Matthew, Messrs. Blake, Barclay and Co., Victoria Works, Greenock. [*Filter, Greenock.* 130.]

1901. Bland, Frederick, Manager, Yorkshire Steel and Engineering Works, Sheffield; and 71 Brunswick Street, Sheffield.

1898. Blane, William, P.O. Box 435, Johannesburg, Transvaal, South Africa.

1895. Blaxter, Augustus Pearce, Jun., Messrs. Barnett and Foster, Niagara Works, Eagle Wharf Road, New North Road, London, N.

1892. Blechynden, John, May Villa, Kungping Road, Shanghai, China.

1867. Bleckly, John James, Bewsey Iron Works, Warrington; and Daresbury Lodge, Altrincham.

1899. Blenkinsop, John Nicholas, Marine Superintendent Engineer, Great Eastern Railway, Parkeston Quay, Harwich.

1882. Blundstone, Samuel Richardson, 3 Ludgate Circus Buildings, London, E.C.

1884. Bocquet, Harry Claude, General Manager, "La Capital" Traction and Electric Co. of Buenos Aires, 761 Avenida de Mayo, Buenos Aires, Argentine Republic.

1863. Boeddinghaus, Julius, Electrotechniker, Düsseldorf, Germany.

1898. Boffey, William, Messrs. Green and Co., Church Gresley Potteries, near Burton-on-Trent.

1895. Bond, George Creswell, Newcastle Chambers, Nottingham. [*Bonds, Nottingham.* 441.]

1884. Bone, William Lockhart, Works of the Ant and Bee, West Gorton, Manchester.

1895. Boorman, Joseph Ashworth, Messrs. Greenwood and Batley, Albion Works, Leeds.

1892. Booth, John William, Union Foundry, Rodley, near Leeds.

1890. Booth, Robert, 110 Cannon Street, London, E.C. [*Crocus, London.*]

1901. Borham, William Evans, Manager, Metal and Mining Stores Department, Kolar Gold Fields, Champion Reefs, Mysore, India.

1891. Boswell, Samuel, Messrs. Galloways, Knott Mill Iron Works, Manchester; and 82 Albert Grove, Longsight, Manchester.

1899. Bottomley, John William, Messrs. Thomas C. Fawcett and Co., White House Engineering Works, Leeds.

1888. Boulding, Sidney, Messrs. Green and Boulding, 105 Bunhill Row, London, E.C. [*Temperature, London.* London Wall 1397.]

1886. Boult, Alfred Julius (*Life Member*), Messrs. Boult, Wade and Kilburn, 111 Hatton Garden, London, E.C. [*Boult, London.* Holborn 180.]

1878. Bourdon, François Edouard, 74 Faubourg du Temple, Paris: (or care of Messrs. Negretti and Zambra, Holborn Viaduct, London, E.C.)

1886. Bourne, Thomas Johnstone, Imperial Chinese Railways, Tientsin, China: (or care of Mrs. Bourne, 16 Park Road, Southborough, Tunbridge Wells.)

1891. Bousfield, John Ebenezer, 4 South Street, Finsbury, London, E.C. [*Invention, London.* Avenue 691.]

1880. Bow, William, Messrs. Bow McLachlan and Co., Thistle Engine Works, Paisley. [*Bow, Paisley.*]

1888. Bowen, Edward (*Life Member*), Locomotive and Carriage Superintendent, Porto Alegre and New Hamburg Railway, Rio Grande do Sol, Brazil: (or care of Benjamin Packham, 18 Upper Wellington Road, Brighton.)

1858. Bower, John Wilkes (*Life Member*), Meredale, Rugby Road, Leamington Spa.

1892. Bowker, Arthur F., Ightham, Kent.

1899. Bowler, Thomas, Works Manager, Messrs. Kitson and Co., Airedale Foundry, Leeds.

1899. Bowman, Harold, Messrs. Stevenson and Co., Canal Foundry, Preston. [*Stevenson, Preston.*]

1900. Boyd, Charles Arthur, 205 Clinton Street, Cleveland, Ohio, United States.
1893. Boyd, James Tennant, Lochgarry Lodge, Lenzie, Glasgow.
1890. Boyd, John White, 59 St. Vincent Street, Glasgow. [*Silent, Glasgow.*]
1882. Bradley, Frederic, Sandhills, Liverpool; Clensmore Foundry, Kidderminster; and Thornton Hall, Childer Thornton, near Chester.
1897. Bradley, James William, City Engineer and Surveyor, City of Westminster, Town Hall, Charing Cross Road, London, W.C.
1896. Bradney, Walter, Billiter Buildings, Billiter Street, London, E.C.
1897. Bradshaw, George Theobald Mathew, Locomotive and Resident Engineer, Ballycastle Railway, Ballymoney, Ireland.
1878. Braithwaite, Charles C., Boreham Wood Works, Elstree, Herts. [*Packing, Boreham Wood.*]
1875. Braithwaite, Richard Charles, Messrs. Braithwaite and Kirk, Crown Bridge Works, Westbromwich [*Braithwaite, Westbromwich.*]; and 39 Victoria Street, Westminster, S.W.
1900. Bramsdon, William Henry, Fleet Engineer R.N., Montrose, Sussex Terrace, Southsea, Portsmouth.
1854. Bramwell, Sir Frederick Joseph, Bart., D.C.L., LL.D., F.R.S., Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W. [*Wellbram, London.* Westminster 60.]
1885. Brearley, Benjamin J., Union Plate Glass Works, St. Helens; and Ansdell Road, Rainhill, Lancashire.
1900. Brearley, Frederick Thomas, Union Plate Glass Co., Pocket Nook, St. Helens.
1900. Bremner, David Alexander, 3 Crown Court, Old Broad Street, London, E.C.
1891. Brewster, Edwin Henry George, 12 Dartmouth Street, Queen Anne's Gate, Westminster, S.W.
1890. Brewster, Walter Seckford, Wrentham, Fleet Street, Carlton, near Sydney, New South Wales.
1887. Brier, Henry, Messrs. J. and E. Hall, Dartford; and 1 Miskin Road, Dartford.
1889. Briggs, Charles, care of Robert Briggs, Howden.
1881. Briggs, John Henry, Howden.
1895. Britten, Thomas Johnson, P.O. Box 494, Johannesburg, Transvaal, South Africa.
1891. Broadbent, William, Messrs. Thomas Broadbent and Sons, Central Iron Works, Huddersfield. [*Broadbent, Huddersfield.* 102.]
1891. Brock, Cameron William Harrison, 30 Fox Hill, Upper Norwood, London, S.E.
1865. Brock, Walter, Messrs. Denny and Co., Engine Works, Dumbarton. [*Lennox, Dumbarton.* 1 and 15.]
1896. Brocklehurst, George, Bridgetown, Barbados, West Indies.
1890. Brodie, John Alexander, City Engineer, Municipal Buildings, Liverpool.

1897. Brodrick, William Holborn, 37 Wellington Street, Hull.

1852. Brogden, Henry (*Life Member*), Halo Lodge, Altrincham, near Manchester.

1890. Brogden, Thomas, Messrs. Appleby and Brogden, Sandside, Scarborough.

1892. Bromiley, William J., Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton.

1892. Bromly, Alfred Hammond, Finsbury Circus Buildings, London, E.C.; and Perseverance Works, Canal Road, Kingsland, London, N.E. [*Christopher, London.*]

1892. Brooke, John Walter, Adrian Iron Works, Lowestoft. [*Brooke, Lowestoft.*]

1892. Brooke, Robert Grundy, Messrs. Holden and Brooke, Sirius Works, West Gorton, Manchester. [*Influx, Manchester.*]

1897. Brooks, Samuel Herbert (*Life Member*), Union Iron Works, West Gorton, Manchester.

1880. Brophy, Michael Mary, Messrs. James Slater and Co., 251 High Holborn, London, W.C.

1874. Brotherhood, Peter, 15 and 17 Belvedere Road, Lambeth, London, S.E.; and 15 Hyde Park Gardens, London, W. [*Brotherhood, London.*]

1901. Browett, Thomas, Messrs. Browett, Lindley and Co., 6 Old Queen Street, Westminster, S.W.

1886. Brown, Andrew, 110 Cannon Street, London, E.C.; and Willis Road, Erith, S.O., Kent. [*Browpost, London.* Bank 647.]

1866. Brown, Andrew Betts, F.R.S.E., Messrs. Brown Brothers and Co., Rosebank Iron Works, Edinburgh.

1891. Brown, Arthur Mogg, Lansdowne, The Avenue, Lincoln.

1885. Brown, Benjamin, Widnes Foundry, Widnes.

1880. Brown, Francis Robert Fountaine, St. James' Club, Montreal, Canada.

1889. Brown, Captain Frederick Alexander William, R.A., Aden; and 58 Rathfern Road, Catford, London, S.E.

1881. Brown, George William, Trollhättan, Alexandra Road, Reading. [251.]

1898. Brown, Harry, Department of Mines, Sydney, New South Wales.

1892. Brown, James Fiddes, Works Superintendent, Charing Cross and Strand Electricity Supply Corporation, 15 Maiden Lane, Strand, London, W.C.

1884. Brown, Oswald, 32 Victoria Street, Westminster, S.W. [*Acqua, London.*]

1888. Brown, William, Messrs. W. Simons and Co., London Works, Renfrew.

1892. Brown, William, Messrs. Siemens Brothers and Co., Woolwich.

1874. Browne, Tomyns Reginald, Locomotive Superintendent, East Indian Railway, Jamalpur, Bengal, India: (or care of Messrs. W. Watson and Co., 7 Waterloo Place, Pall Mall, London, S.W.)

1874. Bruce, Sir George Barclay, 3 Victoria Street, Westminster, S.W.

1889. Bruce, Robert, 77 Billiter Buildings, London, E.C. [*Tangential, London.*]

1873. Brunel, Henry Marc, 21 Delahay Street, Westminster, S.W. [*Consilium, London.* Westminster 24.]

1892. Brunlees, John, 12 Victoria Street, Westminster, S.W. [Westminster 245.]

1887. Brunton, Philip George, Inspector of Ironwork, Public Works Department, Sydney, New South Wales.

1884. Bryan, William B., Engineer, East London Water Works, Lea Bridge, Clapton, London, N.E.

1899. Buchanan, James, Messrs. James Buchanan and Son, Caledonia Foundry and Engine Works, Brasenose Road, Liverpool. [*Buchanan, Liverpool.* Bootle 132.]

1901. Buckham, George Thomas, Messrs. Vickers, Sons and Maxim, 32 Victoria Street, Westminster, S.W.

1892. Buckley, John T., 36 Cleveland Road, Lytham, R.S.O., Lancashire.

1895. Buckley, Victor Emanuel, Managing Director, Lodz Sewing Thread Manufacturing Co., Lodz, Russian Poland.

1896. Buckwell, George William, Board of Trade Offices, Sunderland.

1878. Buddicom, Harry William, Penbedw, Nannerch, near Mold.

1886. Budenberg, Christian Frederick, Messrs. Schäffer and Budenberg, Whitworth Street, London Road, Manchester; and Somerville, Arkwright Road, Marple, Stockport. [*Manometer, Manchester.* 899.]

1882. Budge, Enrique, Engineer-in-Chief, Harbour Works, Valparaiso, Chile: (or care of Messrs. Rose-Innes Cox and Co., 4 Fenchurch Avenue, London, E.C.)

1881. Bulkley, Henry Wheeler, N.Y. Times Building, 41 Park Row, New York, United States.

1884. Bullock, Joseph Howell, Fairfield, Bescot Road, Walsall.

1882. Bulmer, John, Spring Garden Engineering Works, Pitt Street, Newcastle-on-Tyne.

1892. Bulwer, Ernest Henry Earle, Manager, Hagerup-Doughty Ice Factory and Cold Storage Co., Robinson Street, Grimsby.

1891. Bumsted, Francis Dixon, Cannock Chase Foundry and Engine Works, Hednesford, near Stafford.

1884. Bunt, Thomas, Superintendent Engineer, Kiangnan Arsenal, Shanghai, China: (or care of R. Pearce, Lanarth House, Holders Hill, Hendon, London, N.W.)

1899. Burcham, Richard Edward, Manchester Steam Users' Association, 9 Mount Street, Manchester; and Richmond Terrace, Vine Street, Openshaw, Manchester.

1885. Burder, Walter Chapman, Messrs. Messenger and Co., Loughborough.

1891. Burgess, Francis Chassereau Boughey, 101 Eaton Terrace, Eaton Square, London, S.W.

1894. Burke, Michael James, Locomotive and Carriage Superintendent, Morvi Railway, Morvi, India.

1893. Burnes, Thomas, R.N., Rosedale, 3 Lanercost Road, Tulse Hill, London, S.W.

1878. Burnett, Robert Harvey, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1878. Burrell, Charles, Jun., Messrs. Charles Burrell and Sons, St. Nicholas Works, Thetford. [*Burrell, Thetford.*]

1887. Burstal, Edward Kynaston, Messrs. Stevenson and Burstal, 38 Parliament Street, Westminster, S.W.

1896. Burstall, Frederic William, Professor of Engineering, The University, Birmingham.

1890. Burstall, Henry Robert John, Messrs. Burstall and Monkhouse, 14 Old Queen Street, Westminster, S.W. [*Advisedly, London.*]

1898. Burt, George (*Life Member*), Messrs. John Mowlem and Co., 19 Grosvenor Road, London, S.W.

1900. Bushell, Edward Hunter, 68 Orange Court, Liverpool.

1884. Butcher, Joseph John, P. O. Box 132, Thompsonville, Connecticut, United States.

1896. Butcher, Malcolm Henry, Messrs. F. A. Robinson and Co., 54 Old Broad Street, London, E.C.

1882. Butler, Edmund, Kirkstall Forge, near Leeds. [*Forge, Kirkstall.*]

1892. Butler, Henry William, Manager, Albert Hill Foundry, Darlington.

1884. Butler, Hugh Myddleton, Kirkstall Forge, near Leeds.

1891. Butler, James, Victoria Iron Works, Halifax; and Longfield, Halifax.

1891. Butter, Henry Joseph, Messrs. Tannett Walker and Co., Leeds; and Claremont, Burrage Road, Plumstead.

1894. Butterworth, Joseph, Messrs. Lancaster and Tonge, Pendleton, Manchester; and Thorn Cottage, Pendlebury, Manchester.

1899. Byrne, John Joseph, Engineer-in-Chief, Grand Canal Co., Dublin.

1887. Caiger, Emery John, Messrs. E. J. Caiger and Co., 92 Billiter Buildings, Billiter Street, London, E.C. [*Caiger, London.*]

1886. Cairnes, Frederick Evelyn, Killester House, Raheny, S. O., Co. Dublin.

1900. Calastremé, John Carlos, Calle Maipu 129, Buenos Aires, Argentine Republic.

1889. Callan, William, River Plate Fresh Meat Co., 2 Coleman Street, London, E.C.

1900. Calthrop, Everard Richard, 3 Crosby Square, Bishopsgate Street, London, E.C. [*Raillerais, London.*]

1886. Cambridge, Henry, Stuart Chambers, Mount Stuart Square, Cardiff.

1898. Cameron, John, Taff Vale Railway, Cardiff.

1877. Campbell, Angus, Logie, Mussoorie, N. W. Provinces, India.

1880. Campbell, Daniel, Messrs. Campbell, Macmaster and Co., 11 and 12 Clement's Lane, Lombard Street, London, E.C. [*Duke, London.* Avenue 2011.]; and 18 Algiers Road, Lewisham, London, S.E.

1898. Campbell, Hugh, Campbell Gas Engine Co., Kingston, Halifax. [*Camgas, Halifax.* 92.]

1869. Campbell, James, Hunslet Engine Works, Leeds. [*Engineco, Leeds.*]

1882. Campbell, John, Messrs. R. W. Deacon and Co., Kalimaas Works, Soerabaya, Java.

1899. Campbell, Robert Malcolm, City and Surburban Electric Carriage Co., 157A Manor Street, Clapham, London, S.W.

1892. Campbell, William Walker, Messrs. A. F. Craig and Co., Caledonia Engine Works, Paisley [*Machinery, Paisley.* 322.]; and Oakshawhead, Paisley.

1885. Capito, Charles Alfred Adolph, 5 Eardley Crescent, Earl's Court, London, S.W.

1892. Capper, David Sing, Professor of Mechanical Engineering, King's College, Strand, London, W.C.

1898. Capron, Athol John, Green Oak, Totley, Sheffield.

1860. Carbutt, Sir Edward Hamer, Bart., 19 Hyde Park Gardens, London, W.; and Nanhurst, Cranleigh, Guildford.

1878. Cardew, Cornelius Edward, Locomotive and Carriage Superintendent, Burma Railways Co., Insein, Burma.

1875. Cardozo, Francisco Corrêa de Mesquita (*Life Member*), Messrs. Cardozo and Irmâo, Pernambuco Engine Works, Pernambuco, Brazil: (or care of Messrs. Fry Miers and Co., 8 Great Winchester Street, London, E.C.)

1892. Carnegie, David, Royal Laboratory, Royal Arsenal, Woolwich.

1899. Carnt, Edwin Charles, Messrs. J. Samuel White and Co., Cowes, Isle of Wight. [*White, East Cowes.* 3 A.]

1902. Carpenter, Charles Claude, Chief Engineer, South Metropolitan Gas Co., 709A Old Kent Road, London, S.E. [*Metrogas, London.*]

1895. Carr, Robert Alfred, 1 West Pier, London Docks, London, E.

1892. Carrack, Charles, 36 Melton Road, West Bridgford, Nottingham.

1884. Carrick, Henry, Messrs. Carrick and Wardale, Redheugh Engine Works, Gateshead; and Hall Garth, Coatham Mundeville, Darlington. [*Wardale, Gateshead.*]

1901. Carter, Edwin, Engineer R.N., H.M.S. "Stag," Medway Flotilla.

1885. Carter, Herbert Fuller, Babcock and Wilcox Co., Apartado Postal 419, Mexico D.F., Mexico: (or care of H. Maynard Carter, 79 Wool Exchange, Coleman Street, London, E.C.)

1877. Carter, William, General Manager, The Hydraulic Engineering Company, Chester.

1901. Cartwright, William, Works Manager, Messrs. William Heap and Co., Oldham Road Tool Works, Ashton-under-Lyne.

1888. Castle, Frank, Royal College of Science, Exhibition Road, South Kensington, London, S.W.

1891. Caswell, Samuel John, care of Messrs. A. C. Sim and Co., 18 Concession, Kobe, Japan.

1892. Causer, William George, Brighton Villa, Handsworth, R.O., Birmingham.

1883. Cawley, George, 29 Great George Street, Westminster, S.W.

1892. Chadwick, Osbert, C. M. G., Crown Agents' Department, Colonial Office, Downing Street, London, S.W.; and 11 Airlie Gardens, Kensington, London, W.

1894. Chaffey, George, 226 Spring Street, Los Angeles, California, United States.

1876. Challen, Stephen William, Messrs. Taylor and Challen, Derwent Foundry, 60 and 62 Constitution Hill, Birmingham. [*Derwent, Birmingham.*]

1889. Challen, Walter Bernard, Messrs. Taylor and Challen, Derwent Foundry, 60 and 62 Constitution Hill, Birmingham.

1892. Chalmers, George, St. John del Rey Mining Co., Finsbury House, Blomfield Street, London, E.C.

1886. Chalmers, John Reid, 18 Hemingford Road, Barnsbury, London, N.

1901. Chamberlain, John, Admiralty, 21 Northumberland Avenue, Charing Cross, London, W.C. [Former Member 1884–1894.]

1897. Chambers, Edward John, Managing Director, Messrs. Bullers, Tipton.

1896. Chambers, Robert Martin, Messrs. Chambers and Co., Cuba Street, Belfast.

1900. Chambers, Thomas Hall Winsley, Messrs. Gjers, Mills and Co., Ayresome Iron Works, Middlesbrough.

1890. Chandler, Noel, Cannock Chase Foundry and Engine Works, Hednesford, near Stafford.

1888. Chapman, Arthur, Sunny Croft, Wotton-under-Edge.

1866. Chapman, Henry, 69 Victoria Street, Westminster, S.W. [*Tubalcain, London.*]; and 10 Rue Laffitte, Paris.

1878. Chapman, James Gregson, Messrs. Fawcett Preston and Co., Phœnix Foundry, Liverpool; and 20 Bucklersbury, London, E.C. [*Fawcett, London.*]

1898. Chapman, Leonard, 26 Victoria Street, Westminster, S.W.; and Runnymede, Hampton Wick, London, S.W.

1893. Charlesworth, Sheard, Messrs. S. Charlesworth and Co., Richmond Hill Iron Works, Oldham. [*Charlesworth, Engineers, Oldham.* 63.]

1885. Charnock, George Frederick, Engineering Department, Technical College, Bradford.

1877. Chater, John, Messrs. Henry Pooley and Son, 89 Fleet Street, London, E.C.

1890. Chater, John Richard, Messrs. Henry Pooley and Son, 28 Mosley Street, Newcastle-on-Tyne.

1885. Chatfeild Clarke, Leslie, 47 Queensborough Terrace, Hyde Park, London, W.

1891. Chatterton, Alfred, Professor of Engineering, College of Engineering, Madras, India.

1887. Chatwin, James, Victoria Works, Great Tindal Street, Ladywood, Birmingham.

1867. Chatwood, Samuel, Lancashire Safe and Lock Works, Bolton; and High Lawn, Broad Oak Park, Worsley, near Manchester.

1898. Chatwood, Samuel Rawsthorne, Manager, Lancashire Safe and Lock Works, Bolton. [*Chatwoods, Bolton.* 333.]

1873. Cheesman, William Talbot, Hartlepool Rope Works, Hartlepool.

1897. Childe, Henry Slade, Messrs. Childe and Rowand, Wakefield. [*Childe, Wakefield.* 33.]

1895. Chittenden, Edmund Barrow, West Malling, Kent.

1899. Christie, Andrew, Mort's Dock and Engineering Co., Mort's Bay, Sydney, New South Wales.

1880. Churchward, George Dundas, Metropolitan Railway Carriage and Wagon Co., Saltley Works, Birmingham.

1894. Churchward, George Jackson, Great Western Railway Carriage Works, Swindon.

1902. Clacher, Daniel, Chief Mechanical Engineer, Messrs. Henry Tate and Sons, Silvertown, London, E.; and Bryantwood, Auckland Road, Ilford.

1896. Claremont, Ernest Alexander, Messrs. F. H. Royce and Co., Cooke Street, Hulme, Manchester. [*Switch, Manchester.* 772.]

1891. Clark, Augustus, Bowman's Heirs, Pernambuco, Brazil.

1896. Clark, George, Southwick Engine Works, near Sunderland.

1899. Clark, George, Works Manager, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.; and Elm Tree Villa, Spital, Chesterfield.

1899. Clark, Henry, Messrs. Head, Wrightson and Co., Stockton-on-Tees.

1889. Clark, Thomas Alexander, Superintendent of Workshops, George Heriot's School, Edinburgh.

1896. Clark, Thomas Forster, Locomotive Superintendent, Metropolitan Railway, Neasden, London, N.W.

1893. Clarke, Edward Fuhrmann, Curzon Chambers, Paradise Street, Birmingham; and 59 Stanmore Road, Edgbaston, Birmingham.

1901. Clarke, George Granville, care of Messrs. D. R. Clarke and Co., 23 St. Mary Axe, London, E.C.

1894. Clarkson, Charles, 20 Macaulay Road, Birkby, Huddersfield.

1900. Clarkson, Edward Joseph, Clyde Engineering Co., Granville, New South Wales.

1898. Clarkson, James, Messrs. J. and P. Coats, 89 Wellington Street, Glasgow.

1891. Clarkson, Thomas, Moulsham Works, Chelmsford; and Jesmond, Southborough Road, Chelmsford.

1892. Clay, Charles Butler, National Telephone Co., Telephone House, Victoria Embankment, London, E.C.

1901. Clayton, James, Messrs. Samuel Courtauld and Co., Bocking, near Braintree.

1890. Cleaver, Arthur, Engineer, Nottingham Laundry Co., Sherwood, near Nottingham; and Pelham House, Sherwood Rise, Nottingham.

1890. Cleland, William, Sheffield Testing Works, Blonk Street, Sheffield.

1873. Clench, Frederick, Messrs. Bryan Donkin and Clench, Lincoln Works, Chesterfield.

1897. Clifford, Charles, Chief Mechanical Engineer, Great Northern Railway of Ireland, Dundalk.

1885. Clifton, George Bellamy, Great Western Railway Electric Light Works, 150 Westbourne Terrace, Paddington, London, W.

1901. Cloake, William Henry, Managing Director, Messrs. Thomas Green and Son, Surrey Works, Blackfriars Road, London, S.E. [*Surrey Works, London.* Hop 571.]

1885. Close, John, York Engineering Works, Leeman Road, York.

1885. Clutterbuck, Herbert, Engineers' Department, London County Council, Spring Gardens, London, S.W.

1881. Cochrane, Brodie, Greencroft Park, Lanchester, Durham.

1887. Cochrane, George, Resident Engineer, London Hydraulic Power Works, 46 Holland Street, Blackfriars Road, London, S.E.

1885. Cochrane, John, Grahamston Foundry and Engine Works, Barrhead, near Glasgow. [*Cochrane, Barrhead.*]

1869. Cochrane, Joseph Bramah, Woodside Iron Works, near Dudley.

1868. Cochrane, William, Oakfield House, Gosforth, Newcastle-on-Tyne.

1864. Coddington, Sir William, Bart., M.P., Ordnance Cotton Mill, Blackburn; and Wycollar, Blackburn.

1889. Coey, Robert, Locomotive Engineer, Great Southern and Western Railway, Inchicore Works, near Dublin.

1898. Coker, Ernest George, D.Sc., McGill University, Montreal, Canada.

1889. Colam, William Newby, 57 Henderson Row, Edinburgh. [*Colam, Cable, Edinburgh.*]

1892. Cole, Henry Aylwin Bevan, 79½ Gracechurch Street, London, E.C. [*Carbuncle, London.*]

1878. Coles, Henry James, London Crane Works, Derby.

1901. Collet, Harold van Brienen, Hulburd Engineering Co., 150 Leadenhall Street, London, E.C.

1900. Collinson, Arthur, Locomotive Department, North Eastern Railway, York.

1894. Collis, Alfred Edward, Municipal Technical School, Lincoln.

1884. Coltman, John Charles, Messrs. Huram Coltman and Son, Engineering Works, Meadow Lane, Loughborough.

1878. Colyer, Frederick, 14 Victoria Street, Westminster, S.W.

1888. Combe, Abram, Messrs. Combe Barbour and Combe, Falls Foundry, Belfast.

1896. Conaty, George, South Staffordshire Tramways, Darlaston, Wednesbury.

1902. Conner, James, General Manager, English Electric Manufacturing Co., Preston.

1888. Constantine, Ezekiel Grayson, 17 St. Ann's Square, Manchester. [*Constant, Manchester.*]

1886. Conyers, Sidney Ward, Railway Construction Branch, Public Works Department, Sydney, New South Wales.

1874. Conyers, William, New Zealand Chambers, 483 Collins Street, Melbourne, Victoria.

1896. Cook, Charles, Messrs. Barry, Henry and Co., 64 Mark Lane, London, E.C.

1888. Cook, John Joseph, Messrs. Robinson Cooks and Co., Atlas Foundry, St. Helens, Lancashire.

1892. Cooke, Rupert Thomas, 889 Ashton Old Road, Manchester.

1877. Cooper, Arthur, North Eastern Steel Co., Royal Exchange, Middlesbrough.

1883. Cooper, Charles Friend, 6 Wardrobe Place, Doctors' Commons, London, E.C.

1877. Cooper, George, Pencliffe, Alleyne Road, West Dulwich, London, S.E.

1898. Cooper, Henry, Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1891. Cooper, Myles, 36 Victoria Street, Manchester.

1892. Cooper, Thomas Lancelot Reed, Waterloo Chambers, 19 Waterloo Street, Glasgow.

1874. Cooper, William, Neptune Engine Works, Hull. [*Neptune, Hull.*]

1900. Cooper, William, 1 Bonnington Terrace, Edinburgh.

1881. Coote, Arthur, Messrs. R. and W. Hawthorn Leslie and Co., Hebburn, Newcastle-on-Tyne.

1900. Cope, Harry Charles, Messrs. Summerscales and Sons, Phœnix Foundry, Keighley.

1885. Coppée, Evence, 223 Avenue Louise, Bruxelles, Belgium.

1899. Copperthwaite, Ralph Atkinson, Thickley Lodge, New Shildon, R.S.O., Co. Durham.

1901. Corbett, Alexander John, Superintendent Engineer, Messrs. Howarth, Erskine and Co., Singapore, Straits Settlements.

1892. Corin, Philip Burne, Messrs. J. M. B. Corin and Son, Anchor Foundry, Penzance.

1902. Cormack, John Dewar, Professor of Mechanical Engineering, University College, Gower Street, London, W.C.

1895. Corner, John Frederick, Vulcan Boiler and General Insurance Co., 67 King Street, Manchester.

1895. Cornish, Edwin, Fleet Engineer, R.N., H.M.S. "Venerable," Chatham.

1881. Cosser, Thomas, McLeod Road Iron Works, Karachi, India: (or care of Messrs. Ironside, Son and Co., 1 Gresham Buildings, Guildhall, London, E.C.)

1900. Cotton, Charles Cathrow Carne, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1896. Cottrell, Stephen Butler, Pacific Buildings, 31 James Street, Liverpool. [*Motor, Liverpool.* Central 5460.]

1894. Cottrill, John Ormerod, Bee Hive Works, Bolton.

1887. Coulman, John, Lyndhurst, Newington, Hull.

1895. Couper, Sinclair, Messrs. Lindsay Burnet and Co., Moore Park Boiler Works, Govan, Glasgow. [*Burnet, Glasgow.* South Side 1513.]

1878. Courtney, Frank Stuart, Messrs. Easton Anderson and Goolden, Broad Sanctuary Chambers, Broad Sanctuary, Westminster, S.W.; and 38 Croxted Road, Dulwich, London, S.E.

1899. Coveney, William Charles, Superintendent Engineer, Municipal Pumping Station, Singapore, Straits Settlements.

1875. Coward, Edward, Messrs. Melland and Coward, Cotton Mills and Bleach Works, Heaton Mersey, near Manchester; and Heatherlea, Bowdon, Altrincham.

1896. Cowdell, Henry Charles, Cradley Boiler Works, Cradley Heath, S.O., Staffordshire. [*Boiler, Cradley Heath.*]

1893. Cowell, John Ray, P.O. Box 2141, Johannesburg, Transvaal, South Africa.

1875. Cowen, Edward Samuel, Messrs. G. R. Cowen and Co., Beck Works, Brook Street, Nottingham; and 9 The Ropewalk, Nottingham. [*Cowen, Nottingham.* 87.]

1898. Cowen, George Roberts, 9 The Ropewalk, Nottingham. (Former Member 1870–1888.)

1898. Cowens, William Edward, Works Manager, Messrs. John Abbot and Co., Park Works, Gateshead.

1880. Cowper, Charles Edward, Redcot, The Marina, Deal.

1892. Cowper-Coles, Sherard Osborn, Grosvenor Mansions, Victoria Street, Westminster, S.W. [*Zincking, London.*]

1888. Cox, Herbert Henry, 17 Wodehouse Terrace, Falmouth.

1897. Cox, Job, Birmingham Corporation Baths and Parks Departments, Kent Street, Birmingham. [994.]

1896. Craig, Alexander, Messrs. A. and G. Craig, Queen's Quay and Boating Club Road, Londonderry.

1899. Craven, John Alfred, Darnall Railway Carriage, Wagon, and Wheel Works, Sheffield.

1866. Craven, William, Messrs. Craven Brothers, Vauxhall Iron Works, Osborne Street, Manchester. [*Vauxhall, Manchester.* 659.]

1894. Craven, William H. S., Messrs. Craven Brothers, Vauxhall Iron Works, Osborne Street, Manchester. [*Vauxhall, Manchester.* 659.]

1901. Crawford, Joseph, Messrs. Davidson and Co., 37 Corporation Street, Manchester. [*Sirocco, Manchester.*]

1897. Crawford, Walter William, Westminster Motor-Car Garage, 55 Victoria Street, Westminster, S.W.

1898. Crewe, Henry Thomas, 11 Queen Victoria Street, London, E.C.

1889. Cribb, Frederick James, Messrs. Marshall Sons and Co., Britannia Iron Works, Gainsborough.

1893. Crippin, Thomas Henry, 105 Rosemeath Road, Urmston, Manchester.

1897. Critchley, James Sidney, British Electric Traction Co., Donington House, Norfolk Street, Strand, London, W.C.

1883. Croft, Henry, M.P., Chemanns, Vancouver Island.

1899. Crofts, John Charles Thruston, Nelson, British Columbia.

1878. Crohn, Frederick William, 14 Burney Street, Greenwich, London, S.E.

1877. Crompton, Lt.-Colonel Rookes Evelyn Bell, C.B., Arc Works, Chelmsford; and Salisbury House, London Wall, London, E.C. [*Crompton, Chelmsford.*]

1898. Cronin, Richard, Locomotive Superintendent, Dublin, Wicklow and Wexford Railway, Upper Grand Canal Street, Dublin.

1881. Crosland, James Foyell Lovelock, Chief Engineer, Vulcan Boiler and General Insurance Co., 67 King Street, Manchester.

1891. Crosland, Joseph, Messrs. Seebohm and Dieckstahl, Dannemora Steel Works, Sheffield; and Stanley Avenue, Birkdale, Southport.

1875. Crossley, William John, Messrs. Crossley Brothers, Great Marlborough Street, Manchester. [*Crossleys, Openshaw.*]

1900. Crosta, Lorenzo William, Clifton House, Musters Road, West Bridgford, Nottingham.

1882. Cruickshank, William Douglass, Chief Government Engineer Surveyor, Marine Board, Sydney, New South Wales.

1898. Cruttwell, George Edward Wilson, 21 Delahay Street, Westminster, S.W. [*Consilium, London.* Westminster 24.]

1898. Cullen, Peter John, Messrs. Henry Simon, 333 Kent Street, Sydney, New South Wales.

1889. Cullen, William Hart, Castner-Kellner Alkali Co., Weston Point, Runcorn.

1901. Cunliffe, Richard William, Messrs. Cunliffe and Croom, Broughton Iron Works, Manchester. [*Lathe, Manchester.* 1886.]

1901. Cunningham, Hugh, Works Manager, Messrs. Samuelson and Co., Britannia Iron Works, Banbury.

1900. Cutler, Arthur Edward, Public Works Department, Sydney, New South Wales.

1887. Cutler, George Benjamin, Messrs. Samuel Cutler and Sons, Providence Iron Works, Millwall, London, E.; and 10 St. John's Park, Blackheath, London, S.E. [*Cutler, Millwall.* Eastern 59.]

1876. Cutler, Samuel, Messrs. Samuel Cutler and Sons, Providence Iron Works, Millwall, London, E. [*Cutler, Millwall.* Eastern 59.]

1891. Cutler, Samuel, Jun., Messrs. Samuel Cutler and Sons, Providence Iron Works, Millwall, London, E. [*Cutler, Millwall.* Eastern 59.]

1888. Dadabhoy, Cursetjee, Messrs. Shapurji Sorabji and Co., Bombay Foundry and Engine Works, Khetwady, Bombay, India, and Cumbala Hill, Bombay, India.

1894. Dadina, Hormuz Minocher, Messrs. St. Paul and Dadina, Graham's Buildings, Bombay, India.

1891. Daglish, Harry Bolton, Messrs. Robert Daglish and Co., St. Helens Engine and Boiler Works, St. Helens, Lancashire.

1895. Daintree, Thomas Ekins, Rand Club, Johannesburg, Transvaal, South Africa.

1883. D'Albert, Charles, Société des Anciens Établissements Hotchkiss et Cie., 6 Route de Gonesse, St. Denis, Seine, France.

1890. Dalby, William Ernest, Professor of Mechanical Engineering, City and Guilds of London Institute: Finsbury Technical College, Leonard Street, City Road, London, E.C.

1889. Dalgarno, James Robert, 454 Great Western Road, Aberdeen.

1893. Dall, John, Messrs. F. Leyland and Co., Atlantic Engine Works, Bootle, Liverpool.

1893. Dalrymple, Alexander, Superintendent Engineer, Hall Line of Steamers, 19 Tower Buildings N., Water Street, Liverpool.

1881. D'Alton, Patrick Walter, Chief Engineer, Central London Railway, Power House, Shepherd's Bush, London, W.

1899. Dan, Takuma, Mitsui Mining Co., 9 Yamashiro-cho, Kio-bashi-ku, Tokyo, Japan.

1899. Dania, George, 110 Cannon Street, London, E.C.

1866. Daniel, Edward Freer, Messrs. Worthington and Co., The Brewery, Burton-on-Trent; and 89 Derby Street, Burton-on-Trent.

1866. Daniel, William, Messrs. John Fowler and Co., Steam Plough and Locomotive Works, Leeds; and Fern Bank, Horsforth, Leeds.

1888. Darbishire, James Edward, 110 Cannon Street, London, E.C. [*Esra, London.* Avenue 306.]

1878. Darwin, Horace (*Life Member*), The Orchard, Huntingdon Road, Cambridge.

1873. Davey, Henry, 3 Prince's Street, Westminster, S.W.; and Conaways, Ewell, Surrey. [*Subterranean, London.*]

1890. Davidson, Albert, 139 Norfolk Street, Sheffield.

1896. Davidson, John McKenzie, General Contractor, Karachi, India.

1888. Davidson, Samuel Cleland, Sirocco Works, Bridge End, Belfast.

1880. Davies, Charles Merson, Messrs. Dübs and Co., Glasgow Locomotive Works, Glasgow; and Leslie House, Pollokshields, Glasgow.

1897. Davies, Edmund Joseph, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich.

1885. Davies, Edward John Mines, 24 Harrington Square, London, N.W.

1891. Davies, John Hubert, Messrs. Hubert Davies and Spain, Caxton Street, East London, Cape Colony.

1894. Davis, George, Engineer's Office, Lancashire and Yorkshire Railway, Hunt's Bank, Manchester.

1900. Davis, Joseph, Chief Engineer, Sewerage Construction, Public Works Department, Sydney, New South Wales.

1900. Davis, Rayner, Engineer R.N., H.M.S. "Benbow," care of Postmaster General, London, E.C.

1877. Davison, John Walter, Bombay Baroda and Central India Railway, Ahmedabad, India: (or care of Mrs. Channon, 97 Shirland Road, Maida Vale, London, W.)

1884. Davison, Robert, Locomotive Department, Caledonian Railway, St. Rollox, Glasgow; and 4 Edgefauld Terrace, Springburn, Glasgow.

1873. Davy, David, Broom Croft, Parkhead, Sheffield.

1892. Davy, William James, 3 Crown Court, Old Broad Street, London, E.C [*Management, London.* Avenue 152.]

1901. Dawson, Lieut. Arthur Trevor, late R.N., Messrs. Vickers, Sons and Maxim, 32 Victoria Street, Westminster, S.W.

1875. Dawson, Edward, 23 Park Place, Cardiff. [*Mechanical, Cardiff.*]

1896. Dawson, Philip, Lennox House, Norfolk Street, Strand, London, W.C.

1896. Day, Charles, Messrs. S. Z. de Ferranti, Hollinwood, Manchester.

1890. Day, George Cameron, Messrs. Day Summers and Co., Northam Iron Works, Southampton; and 29 Carlton Crescent, Southampton.

1886. Dayson, William Ogden, Blaenavon Works, Blaenavon, R.S.O., Monmouthshire.

1874. Deacon, George Frederick, Great George Street Chambers, 16 Great George Street, Westminster, S.W.

1880. Deacon, Richard William, Glenthorne, Astwood, Worcester.

1894. Deakin, Benjamin Walter, British Insulated Wire Co., 65 Queen Street, Melbourne, Victoria.

1900. Dean, Frederic William Charles, Royal Ordnance Factory, Royal Arsenal, Woolwich.

1868. Dean, William, Locomotive Superintendent, Great Western Railway, Swindon.

1899. Deas, James, Chief Engineer, Water, Sanitary and Electric Lighting Departments, Municipal Offices, Warrington.

1900. Deeble, William Rufus, Locomotive Superintendent, Tasmanian Government Railways, Launceston, Tasmania.

1890. Deeley, Richard Mountford, Locomotive Department, Midland Railway, Derby; and 38 Charnwood Street, Derby.

1889. Defries, Wolf, Messrs. Defries and Sons, 147 Houndsditch, London, E. [*Defries, London.*]

1901. Dellwik, Carl, Dellwik-Fleischer Water-Gas Syndicate, 25 Victoria Street, Westminster, S.W.

1900. Denham, John, Electrician, Electric Light Department, Cape Government Railways, Cape Town, Cape Colony.

1882. Denison, Samuel, Messrs. Samuel Denison and Son, Hunslet Foundry, Leeds. [*Weigh, Leeds.* Central 1238.]

1892. Dennis, George D., 26 Newton Road, Bayswater, London, W.

1900. Denny, John, British Corporation for the Survey and Registry of Shipping, Fremantle, Western Australia.

1888. Dent, Charles Hastings, London and North Western Railway, Lime Street Station, Liverpool.

1898. De Ritter, Walter Henry, 33 Three Colt Street, Limehouse, London, E. [*Deritter, London.* Eastern 664.]

1895. Dewhurst, John Henry, Messrs. John Dewhurst and Son, Attercliffe Road, Sheffield. [1614.]

1899. Dewrance, John, 165 Great Dover Street, London, S.E.; and Cranmore Place, Chislehurst.

1900. Dews, Frank, Messrs. Edwin Danks and Co., Oldbury Boiler Works, Oldbury, Birmingham; and 120 Wilton Road, Sparkhill, Birmingham.

1883. Dick, Frank Wesley, Park Gate Iron and Steel Works, Rotherham.

1891. Dick, John Norman, Senior Government Marine Surveyor, Singapore, Straits Settlements.

1890. Dickinson, Alfred, Telephone Buildings, Birmingham. [*Traction, Birmingham.* 1823.]

1894. Dickinson, Harold, Central Electric Lighting Station, Yorkshire House to House Electricity Co., Whitehall Road, Leeds. [*Electricity, Leeds.* Central 1013.]

1891. Dickinson, James Clark, Palmer's Hill Engine Works, Sunderland.

1880. Dickinson, John, Palmer's Hill Engine Works, Sunderland. [*Bede, Sunderland.*]

1892. Dickinson, Richard Henry, Locomotive Superintendent, Birmingham Central Tramways, Kyotts Lake Depôt, Birmingham.

1875. Dickinson, William, Warham Road, Croydon.

1899. Ditchburn, Robert, Manager, Bombay Steam Navigation Co., Bombay, India.

1886. Dixon, Robert, Oakfield, Lymm, Warrington.

1883. Dixon, Samuel, Messrs. Kendall and Gent, Victoria Works, Belle Vue, Manchester. [*Tools, Manchester.* 5147.]

1898. Dixon, Walter, 59 Bath Street, Glasgow. [*Fresco, Glasgow.* 3656.]

1897. Dixon, Walter Frank, Kompanaya Singer, Podolsk, Moscow Government, Russia.

1887. Dixon, William Basil, Chief Manager, Hong Kong and Whampoa Dock Co., Hong Kong, China.

1896. Dobson, Adam, 7 Clarendon Place, May Street, Belfast.

1899. Dobson, Sydney Thornton, Chief Engineer, St. James's and Pall Mall Electric Light Co., 19 Carnaby Street, Golden Square, London, W. [*Fulleresco, London.* Gerrard 5082.]

1880. Dodd, John, Messrs. Platt Brothers and Co., Hartford Iron Works, Oldham.

1868. Dodman, Alfred, Highgate Foundry, Lynn. [*Dodman, Lynn.*]

1889. Dolby, Ernest Richard, Messrs. Dolby and Williamson, 8 Prince's Street, Westminster, S.W.

1898. Donaldson, Hay Frederick, Deputy Director General of Ordnance Factories, Royal Arsenal, Woolwich; and Wood Lodge, Shooter's Hill, Kent.

1873. Donkin, Bryan (*Life Member*), Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E. [*Donkin Company, London.* Hop 662.]; and The Mount, Wray Park, Reigate.

1895. Donkin, Harry Julyan, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.

1891. Donovan, Edward Wynne, Messrs. Donovan and Co., Broughton Bridge Iron Works, Salford, Manchester. [*Dazzle, Manchester.* 3404.]

1896. Dorman, William Sansom, Works Manager, Gloucester Wagon Works, Gloucester; and Bishopstone House, Gloucester.

1865. Douglas, Charles Prattman (*Life Member*), Thornbeck Hill, Carmel Road, Darlington.

1900. Douglas, James McDonald, Stanbridge House, Canning Crescent, Wood Green, London, N.

1898. Douglas, William James, 141 Fenchurch Street, London, E.C. [*Blockading, London.*]

1891. Douglass, William James, Messrs. Douglass Brothers, Globe Iron Works, Blaydon-on-Tyne, R.S.O., County Durham.

1887. Douglass, William Tregarthen, 15 Victoria Street, Westminster, S.W.

1857. Dove, George, Messrs. Cowans Sheldon and Co., St. Nicholas Engine and Iron Works, Carlisle; and Viewfield, Stanwix, near Carlisle.

1873. Dove, George, Redbourn Hill Iron and Coal Co., Frodingham, near Doncaster [*Redbourn, Frodingham.*]; and Hodroyd Hall, near Barnsley.

1900. Dow, James William, Locomotive, Carriage, and Wagon Superintendent, Lancashire Derbyshire and East Coast Railway, Tuxford, Newark.

1866. Downey, Alfred C., Messrs. Downey and Co., Coatham Iron Works, Middlesbrough; and Belle Vue, Marton Road, Middlesbrough.

1881. Dowson, Joseph Emerson, 39 Victoria Street, Westminster, S.W. [*Gaseous, London.*]

1880. Doxford, Robert Pile, Messrs. William Doxford and Sons, Pallion Shipbuilding and Engine Works, Sunderland.

1874. Dredge, James, C.M.G., 35 Bedford Street, Strand, London, W.C. [Gerrard 3663.]

1899. Drew, Alexander, 22 Rutland Square, Edinburgh.

1890. Drewet, Tom, Government Senior Inspector of Steam Boilers, Town Custom House, Bombay, India.

1896. Dronsfield, William, Messrs. Dronsfield Brothers, Atlas Works, Oldham.

1886. Drummond, Dugald, Locomotive Engineer, London and South Western Railway, Nine Elms, London, S.W.

1898. Drummond, George William, Glasgow Railway Engineering Co., 13 Victoria Street, Westminster, S.W. [*Azabra, London.*]

1898. Drummond, Peter, Locomotive Superintendent, Highland Railway, Inverness.

1899. Drummond, Walter, Glasgow Railway Engineering Co., Govan, Glasgow.

1900. Dryden, Albert, H.M. Mint, Calcutta, India: (or care of Messrs. Grindlay and Co., 55 Parliament Street, Westminster, S.W.)

1896. Dryden, Thomas, Grimshaw Street Foundry, Preston. [36.]

1877. Dübs, Charles Ralph, Messrs. Dübs and Co., Glasgow Locomotive Works, Glasgow.

1885. Duckering, Charles, Water Side Works, Rosemary Lane, Lincoln.

1900. Dudin, Henry William, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1901. Duff, Edward James, Chief Engineer, United Alkali Co., Widnes.

1868. Dugard, William Henry, Messrs. Dugard Brothers, Vulcan Rolling Mills, Bridge Street West, Summer Lane, Birmingham. [*Vulcan, Birmingham.*]

1886. Duncan, Norman, Mechanical Engineer to the Municipality, Rangoon, British Burmah, India.

1894. Dunell, George Robert, 36 Bedford Street, Strand, London, W.C.; and 33 Spencer Road, Grove Park, Chiswick, London, W.

1898. Dunkerley, Stanley, Professor of Applied Mechanics, Royal Naval College, Greenwich, London, S.E.

1892. Dunlop, James, care of T. A. Ellwood, 111 Stroud Green Road, London, N.

1870. Dunlop, James Wilkie, 39 Delancey Street, Regent's Park, London, N.W.

1900. Dunlop, Peter, 28 Russell Street, Reading.

1899. Dunn, Andrew Macfarlane, Works Manager, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1890. Dunn, Hugh Shaw, Engineer, Caprington Collieries, Kilmarnock.

1901. Dunn, James, Messrs. Vickers, Sons and Maxim, Naval Construction Works, Barrow-in-Furness.

1895. Dunn, Matthew, Engineer, Gas and Water Department, Urban District Council, Goole.

1899. Durston, Sir Albert John, K.C.B., R.N., Engineer-in-Chief, Admiralty, Whitehall, London, S.W.; and 4 Westcombe Park Road, Blackheath, London, S.E.

1886. Duvall, Charles Anthony, Haseley Iron Works, Wallingford.

1865. Dyson, Robert, Messrs. Owen and Dyson, Rother Iron Works, Rotherham.

1880. Eager, John Edward, Messrs. William Crichton and Co., Engineering and Shipbuilding Works, Abo, Finland.

1858. Easton, Edward, 7 Victoria Street, Westminster, S.W. [Westminster 49.]

1884. Eastwood, Charles, Manager, Linacre Gas Works, Liverpool.

1892. Eastwood, Thomas Carline, Messrs. Eastwood Swingler and Co., Victoria and Railway Iron Works, Derby. [*Swingler, Derby.*]

1888. Eaton-Shore, George, Borough Engineer, Temple Chambers, Crewe.

1896. Eborall, Cornelius Willes, District Locomotive Superintendent, East Indian Railway, Jamalpur, India: (or care of Messrs. William Watson and Co., 7 Waterloo Place, Pall Mall, London, S.W.)

1897. Echevarri, Juan Thomas Wood, British Aluminium Co., 9 Victoria Street, Westminster, S.W.

1878. Eckart, William Roberts, Room 4, Nevada Block, San Francisco; and 3014 Clay Street, San Francisco, California, United States.

1886. Ede, Francis Joseph, Messrs. Ede Brothers, Silchar, Cachar, India.

1892. Edgcome, James Edmund, Borough Electrical Engineer, Kingston-on-Thames.

1883. Edmiston, James Brown, Marine Superintending Engineer, Messrs. Hamilton Fraser and Co., K Exchange Buildings, Liverpool; and Ivy Cottage, Highfield Road, Walton, Liverpool.

1900. Edwards, Albert Edward Alexander, Messrs. Edwards and Shaw, 105 Colmore Row, Birmingham. [3705.]

1877. Edwards, Frederick, 62 Bishopsgate Street Within, London, E.C.

1891. Edwards, Herbert Francis, Messrs. Forster, Brown and Rees, Guildhall Chambers, Cardiff.

1885. Edwards, Walter Cleeve, Public Works Department, Cape Town, Cape Colony.

1896. Ekin, Tom Charles, 21 Old Queen Street, Westminster, S.W.

1899. Elford, Ernest John, Water Engineer, Water Engineer's Department, New Road, Portland.

1888. Ellery, Henry George, 7 Fernbank Road, Redland, Bristol.

1875. Ellington, Edward Bayzand, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1892. Elliott, Archibald Campbell, D.Sc., Professor of Engineering, University College of South Wales and Monmouthshire, Cardiff.

1895. Elliott, George, 2 Clarinda, Cavehill Road, Belfast.

1901. Ellis, Arthur, Engineer and Manager, Cardiff Corporation Electric Lighting and Tramway Departments, Town Hall, Cardiff.

1895. Ellis, Arthur Devonshire, Managing Director, Messrs. Thwaites Brothers, Vulcan Iron Works, Bradford.

1901. Ellis, Reginald Eaton, Messrs. Mewburn, Ellis and Pryor, 70 and 72 Chancery Lane, London, W.C. [*Patent, London.* Holborn 243.]

1896. Ellis, William Frederick Wood, 10 St. James's Square, John Dalton Street, Manchester.

1900. Elmer, Joseph John, Works Manager, Westinghouse Brake Co., 82 York Road, King's Cross, London, N.; and Ethelmar House, Waverley Road, Crouch End, London, N.

1897. Elsworth, John Francis, Les Huileries, Alexandria, Egypt.

1885. Elsworthy, Edward Houtson, Messrs. Richardson and Cruddas, Byculla Iron Works, Bombay, India; and The Ridge, Malabar Hill, Bombay, India.

1878. Elwin, Charles, London County Council, Spring Gardens, London, S.W.

1890. English, Lt.-Colonel Thomas, Hawley, near Dartford.

1894. English, Thomas Matthew, Superintendent, Die and Coining Department, H. M. Mint, Bombay, India.

1894. Ennor, Charles John, 55 Rua da Reboleira, Oporto, Portugal.

1901. Erichsen, Frederik Ole, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1890. Esson, John, Chatteris Engineering Works, Chatteris, S.O., Cambridgeshire.

1901. Esson, John, 104–107 Fetter Lane, London, E.C. [*Essons, London.* Holborn 1064.]

1884. Etherington, John, 39A King William Street, London Bridge, London, E.C.

1887. Evans, Arthur George, Palace Chambers, 9 Bridge Street, Westminster, S.W.; and Kington Langley, Chippenham.

1884. Evans, David, Messrs. Bolckow Vaughan and Co., Cleveland Iron and Steel Works, South Bank, R.S.O., Yorkshire.

1887. Everitt, Nevill Henry, Messrs. Thomas Piggott and Co., Atlas Works, Birmingham; and Hillside, Knowle, Warwickshire.

1897. Evers, Joseph Henry, General Manager, Messrs. Manning, Wardle and Co., Boyne Engine Works, Hunslet, Leeds. [*Manning, Leeds.*]

1894. Ewen, John Taylor, F.R.S.E., H.M. Inspector of Schools (Science and Art) for the Northern Division of Scotland; Millbank House, Forfar.

1881. Ewen, Thomas Buttwell, Messrs. Ewen and Mitton, Smithfield Works, Sherlock Street, Birmingham.

1891. Ewing, James Alfred, LL.D., F.R.S., Professor of Mechanism and Applied Mechanics, Engineering Department, The University, Cambridge; and Langdale Lodge, Cambridge.

1890. Exton, George Gaskell, Messrs. Chubb and Son, 128 Queen Victoria Street, London, E.C.

1880. Farcot, Paul, Messrs. Farcot and Sons, Engine Works, 17 Avenue de la Gare, St. Ouen, France.

1881. Farrar, Sidney Howard, Messrs. Howard Farrar and Co., Port Elizabeth, South Africa; and care of Messrs. F. A. Robinson and Co., 54 Old Broad Street, London, E.C.

1900. Favell, Thomas Milnes, Fairwood, Pine Grove, Weybridge.

1900. Feak, William Mark, Fleet Engineer R.N. (Retired), Mill House, Blackheath, London, S.E.

1901. Fedden, Samuel Edgar, Chief Engineer and Manager, Sheffield Corporation Electric Supply Department, Commercial Street, Sheffield.

1882. Feeny, Victor Isidore, 60 Queen Victoria Street, London, E.C. [*Victor Feeny, London.*]

1899. Feetham, Mark, London Electric Supply Corporation, Stowage Wharf, Deptford, London, S.E.

1901. Fell, Aubrey Llewellyn Coventry, Electrical Engineer and General Manager, Sheffield Corporation Tramways, Town Hall, Sheffield.

1876. Fell, John Corry, 1 Queen Victoria Street, London, E.C.; and Excelsior Works, Old Street, London, E.C.

1869. Fenwick, Clennell, 57 Gracechurch Street, London, E.C.; and 17 Dalebury Road, Upper Tooting, London, S.W.

1892. Fenwick, James, 19 Bridge Street, Sydney, New South Wales [1038.]

1881. Ferguson, William, Harbour Board, Wellington, New Zealand: (or care of Montgomery Ferguson, 81 James Street, Dublin.)

1896. Ferguson, William Deeble, Albert Villa, Ravenhill Road, Belfast.

1900. Ferranti, Sebastian Ziani de, Hollinwood, Manchester; and Ingleside, Lyndhurst Road, Hampstead, London, N.W.

1866. Fiddes, Walter, 2 Queen's Avenue, Tyndall's Park, Bristol.

1867. Field, Edward, 4 Trafalgar Square, London, W.C.

1888. Field, Howard, 38 Mincing Lane, London, E.C.

1884. Fielden, Joseph Petrie, Park Terrace, Rochdale.

1874. Fielding, John, Messrs. Fielding and Platt, Atlas Iron Works, Gloucester. [*Atlas, Gloucester.*]

1891. Finlayson, Finlay, Laird Street, Coatbridge.

1902. Finlayson, Richard Wilson, Messrs. H. P. Gregory and Co., 74 Clarence Street, Sydney, New South Wales.

1899. Firth, Ambrose, Messrs. Walker, Eaton and Co., Wicker Iron Works, Sheffield. [*Founder, Sheffield.* 373.]

1897. Fish, Sylvester Robert, Messrs. F. Street and Co., Palacio da Flôr da Murta, 156 Rua do Poço dos Negros 158, Lisbon, Portugal.

1889. Fisher, Henry Bedwell, Marine Shops, London Brighton and South Coast Railway, Newhaven, Sussex.

1884. Fisher, Henry Oakden, Ty Mynydd, Radyr, near Cardiff.

1897. Fisher, Pearson, Messrs. Manlove, Alliott and Co., Bloomsgrove Works, Nottingham.

1888. FitzGerald, Maurice Frederick, Professor of Engineering, Queen's College, Belfast.

1877. Flannery, Sir James Fortescue, M.P., 9 Fenchurch Street, London, E.C. [Avenue 338.]

1898. Fletcher, William, Messrs. Clayton and Shuttleworth, Stamp End Works, Lincoln.

1901. Flindt, Ernest Just, Morel's Chambers, Cardiff. [*Shaft, Cardiff.*]

1892. Focken, Charles Frederick, care of Institute of Engineers and Shipbuilders, Hong Kong, China.

1902. Foggo, Watson, General Manager, The Blenheim Engineering Co., 48 Eagle Wharf Road, London, N. [*Blenheim, London.* Dalston, 125.]

1899. Footner, Harry, London and North Western Railway, Crewe.

1882. Forbes, David Moncur, Engineer, H. M. Mint, Bombay.

1892. Forbes, Percy Alexander, Messrs. Lambert Brothers, Tube Mills, Iron and Brass Works, Walsall.

1882. Forbes, William George Loudon Stuart, Mechanical Superintendent, H. M. Mint, Calcutta.

1899. Ford, Thomas Wharton, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1899. Ford-Moore, Arthur Pilcher, Messrs. Stuart and Moore, Victoria Electrical Works, Ealing, London, W. [*Burning, London.*]

1892. Forrest, Hilary Sheldon, General Manager, Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton.

1888. Forster, Alfred Llewellyn, Engineer, Newcastle and Gateshead Water Works, Newcastle-on-Tyne.

1889. Foster, Ernest Howard, Power Specialty Co., 126 Liberty Street, New York, United States.

1889. Foster, Herbert Anderton (*Life Member*), Messrs. John Foster and Son, Black Dike Spinning Mills, Queensbury, near Bradford.

1888. Foster, James, Lily Bank, St. Andrew's Drive, Pollokshields, Glasgow.

1884. Foster, John Slater, Messrs. Jones and Foster, 39 Bloomsbury Street, Birmingham.

1882. Fothergill, John Reed, Consulting Engineer, Dock Office, West Hartlepool; and 1 Bathgate Terrace, West Hartlepool.

1877. Foulis, William, Manager, Glasgow Corporation Gas Department, City Chambers, 45 John Street, Glasgow.

1885. Fourny, Hector Foster, French Chambers, Queen's Dock-Side, Hull. [*Veritas, Hull.*]

1900. Fowler, Alexander Farquharson, Engineer, Ribble Navigation, Dock Offices, Preston.

1866. Fowler, George, Basford Hall, near Nottingham.

1896. Fowler, Henry, Locomotive Department, Midland Railway, Derby.

1894. Fowler, Robert Henry, Messrs. John Fowler and Co., Steam Plough and Locomotive Works, Leeds. [*Fowler, Leeds.*]

1885. Fowler, William Henry, 53 New Bailey Street, Manchester; and Manor Avenue, Urmston, Manchester.

1900. Fox, Charles Heyland, Broad Street House, Old Broad Street, London, E.C.

1866. Fox, Sir Douglas, 28 Victoria Street, Westminster, S.W.

1875. Fox, Samson, Blairquhan Castle, Maybole; and Grove House, Harrogate.

1901. Fox, William, Mechanical Engineer to the Manchester Ship Canal Co., 41 Spring Gardens, Manchester. [*Navigation, Manchester.* 688 and 1077.]

1884. Frampton, Edwin, General Engine and Boiler Co., Hatcham Iron Works, Pomeroy Street, New Cross Road, London, S.E. [*Oxygen, London.*]

1885. Franki, James Peter, Mort's Dock and Engineering Co., Mort's Bay, Sydney, New South Wales: (or care of Messrs. Goldsbrough Mort and Co., 149 Leadenhall Street, London, E.C.)

1877. Fraser, John Hazell, Messrs. John Fraser and Son, Millwall Boiler Works, London, E.; and 110 Cannon Street, London, E.C.

1899. Fraser, Patrick, Messrs. Douglas Fraser and Sons, Westburn Foundry, Arbroath.

1866. Fry, Albert, Bristol Wagon Works, Lawrence Hill, Bristol.

1900. Fujii, Terugoro, care of Admiralty, Tokyo, Japan.

1891. Fuller, Charles Frederick, 223 Temple Chambers, Temple Avenue, London, E.C.

1897. Furness, Charles, Borough Electrical Engineer, Devonport Corporation Electricity Works, Newport Street, Stonehouse, Plymouth.

1890. Gadd, William, Acting Locomotive Superintendent, Waterford, Limerick and Western Railway, Limerick.

1866. Galloway, Charles John, Managing Director, Messrs. Galloways, Knott Mill Iron Works, Manchester. [*Galloway, Manchester.*]

1898. Gandy, Frederick, Staveley Coal and Iron Co., Chesterfield.

1884. Ganga Ram, Rai Bahadur, Executive Engineer, Public Works Department, Amritsar, Punjaub, India: (or care of Messrs. Thomas Wilson and Co., 10 and 12 Eastcheap, London, E.C.)

1899. Gardner, William, Vauxhall Iron Works Co., 45 Leadenhall Street, London, E.C. [*Wellhole, London.* Avenue 800.]

1891. Garrard, Charles Riley, Garrard Manufacturing Co., Magneto Works, Ryland Street, Birmingham. [*Gearing, Birmingham.* 904.]

1899. Garrard, George Mingay, Broseley, Shropshire.

1882. Garrett, Frank, Messrs. Richard Garrett and Sons, Leiston Works, Leiston, R.S.O., Suffolk. [*Garrett, Leiston.*]

1899. Garvie, James, Managing Director, Southgate Engineering Co., New Southgate, London, N. [*Centrifugal, New Southgate.*]

1898. Gass, John, Engineer's Office, The Tower Bridge, 9 Horselydown Lane, London, S.E.

1894. Gatehouse, Tom Ernest, 4 Ludgate Hill, London, E.C. [*Ageekay, London.* Holborn 933.]

1888. Gaze, Edward Henry James, 4 Victoria Drive, Mount Florida, Glasgow.

1895. Geach, Frederick Samuel, Wigan Coal and Iron Works, Wigan.

1901. Gearing, Ernest George, General Manager, Leeds Forge, Leeds.

1902. Gebbie, John, Messrs. Howarth, Erskine and Co., Singapore, Straits Settlements.

1888. Geddes, Christopher, 2A Drury Buildings, Water Street, Liverpool. [*Graccius, Liverpool.*]

1880. Geoghegan, Samuel, Consulting Engineer to Messrs. A. Guinness Son and Co., St. James' Gate Brewery, Dublin; and The Grove, Killiney, Co. Dublin.

1896. German, Walter Hussey, Colonial Sugar Refining Co., Sydney, New South Wales.

1887. Gibb, Andrew, Managing Engineer, Messrs. Rait and Gardiner, Millwall Docks, London, E.; and Garthland, Westcombe Park Road, Blackheath, London, S.E.

1871. Gibbins, Richard Cadbury, Berkley Street, Birmingham. [*Gibbins, Birmingham.*]

1901. Gibbons, William Gregory, 58 Ouse Street, Goole. [*Gibbons, Goole.*]

1901. Gibbs, John Henry, Britannia Iron Works, Observatory, Cape Town, Cape Colony.

1899. Gibson-Sugars, John Sugars, Chief Engineer, R.N., H.M.S. "Pioneer," care of Postmaster-General, London, E.C.

1883. Gilchrist, Percy Carlyle, F.R.S. (*Life Member*), Frognal Bank, Finchley Road, Hampstead, London, N.W.

1898. Giles, Benjamin, Divisional Superintendent, Great Western Railway, Newton Abbot.

1880. Gill, Charles, Messrs. Young and Gill, Engineering Works, Java; and Java Lodge, Beckenham.

1884. Gimson, Arthur James, Messrs. Gimson and Co., Engine Works, Vulcan Street, Leicester. [*Gimson, Leicester.* 6.]

1881. Girdwood, William Wallace, 24 Plashet Road, Upton Manor, London, E.

1896. Glasgow, Arthur Graham (*Life Member*), Messrs. Humphreys and Glasgow, 38 Victoria Street, Westminster, S.W.

1898. Glen, David Corse, Messrs. Matheson and Co., 3 Lombard Street, London, E.C.

1880. Godfrey, William Bernard, 23 St. Swithin's Lane, London, E.C.

1888. Goff, John, Messrs. Salt and Co., The Brewery, Burton-on-Trent.

1882. Goldsmith, Alfred Joseph, Lillington, Moray Street, New Farm, Brisbane, Queensland.

1877. Goodbody, Robert, Messrs. Goodbody, Clashawaun Jute Factory, Clara, near Moate, Ireland.

1875. Goodfellow, George Ben, Messrs. Goodfellow and Matthews, Hyde Iron Works, Hyde, near Manchester. [*Goodfellow, Hyde.*]

1901. Goodier, Frank, Caixa Postal 392, São Paulo, Brazil.

1890. Goodman, John, Professor of Engineering, Yorkshire College, Leeds.

1899. Goodwin, Albert Beecham, Artillery Mansions, 75 Victoria Street, Westminster, S.W.

1889. Goold, William Tom, 24 Brunswick Square, Gloucester.

1887. Gordon, Alexander, 23 Victoria Street, Westminster, S.W. [*Niliacus, London.*]

1901. Gordon, Alexander Grant, Marine Superintendent, China Manilla Steamship Co., Hong Kong, China; and care of Messrs. Shewan, Tomes and Co., Hong Kong, China.

1879. Gorman, William Augustus, Messrs. Siebe and Gorman, 187 Westminster Bridge Road, London, S.E. [*Siebe, London.*]

1877. Goulty, Wallis Rivers, Kuruman, Walberswick, Southwold, Suffolk.

1878. Grafton, Alexander, Vulcan Works, Bedford. [*Grafton, Bedford.*]

1901. Graham, Jesse, Messrs. William Aykroyd and Sons, Oakwood Dye Works, Bradford.

1894. Graham, Maurice, Messrs. Graham, Morton and Co., Black Bull Street, Leeds.

1896. Graham, Robert, Ponce, Porto Rico.

1900. Graham, William Vaux, 5 Queen Anne's Gate, Westminster, S.W. [*Grallator, London.* Westminster 656.]

1900. Grant, Lewis, Messrs. Douglas and Grant, Dunnikier Foundry, Kirkcaldy. [*Douglas, Kirkcaldy.* 105.]

1886. Grant, Percy, Assistant Locomotive, Carriage, and Wagon Superintendent, Sola Works, Ferro Carril del Sud, Buenos Aires, Argentine Republic: (or care of John M. Grant, 136 Sutherland Avenue, Maida Vale, London, W.)

1895. Grant, Thomas Maxwell, Managing Director, Messrs. Napier Brothers, 100 Hyde Park Street, Glasgow. [*Windlass, Glasgow.* 714.]

1896. Gray, Alexander Cuthill, Assistant Locomotive Superintendent, Rio Grande do Sol Railway, Rio Grande do Sol, Brazil.

1891. Gray, George Macfarlane (*Life Member*), Board of Trade Surveyors' Office, Custom House Arcade, Liverpool.

1865. Gray, John Macfarlane, 4 Ladbroke Crescent, Notting Hill, London, W.

1879. Gray, Thomas Lowe (*Life Member*), Lloyd's Register, 71 Fenchurch Street, London, E.C.; and 24 St. Michael's Road, Stockwell, London, S.W.

1900. Greaven, Andrew Augustine, Works Manager, Sola Works, Ferro Carril del Sud, Buenos Aires, Argentine Republic.

1898. Greaven, Louis, Locomotive, Carriage and Wagon Superintendent, Inter-Oceanic Railway, Puebla, Mexico: (or care of F. Nolan, 17 Beach, Queenstown, Co. Cork.)

1902. Greaves, William, Vincent Machine Works, Geldord Road, Leeds; and 15 Park Row, Leeds. [02847.]

1861. Green, Sir Edward, Bart., Messrs. E. Green and Son, Phœnix Works, Wakefield.

1901. Green, Thomas, Messrs. Steel, Peech and Tozer, The Ickles, Rotherham.

1898. Green, Thomas Willoughby, Messrs. Thomas Green and Son, Smithfield Iron Works, Leeds. [*Smithfield, Leeds.* Central 158.]

1893. Green, William Penrose, Messrs. Thomas Green and Son, Smithfield Iron Works, Leeds. [*Smithfield, Leeds.* Central 158.]

1901. Greenhill, Thomas Arthur, Santa Teresa 9, Madrid, Spain.

1895. Greensmith, James Eades, Mason Machine Works, Taunton, Massachusetts, United States.

1878. Greenwood, Arthur, Messrs. Greenwood and Batley, Albion Works, Leeds.

1874. Greenwood, William Henry (*Life Member*), Birmingham Metal and Munitions Co., Adderley Park Mills, Birmingham.

1894. Gregory, Horace Mark, Messrs. Brown, Lenox and Co., 9 Martin's Lane Cannon Street, London, E.C.; and Ynysyngharad, Pontypridd.

1892. Gresham, Harry Edward, Messrs. Gresham and Craven, Craven Iron Works, Salford, Manchester. [*Brake, Manchester.* 613.]

1880. Gresham, James, Messrs. Gresham and Craven, Craven Iron Works, Salford, Manchester. [*Brake, Manchester.* 613.]

1883. Grew, Frederick, 63 Burnt Ash Hill, Lee, London, S.E.

1895. Griffith, Percy, 54 Parliament Street, Westminster, S.W.

1895. Griffiths, Harry Denis, Manager, Clark's Consolidated, P.O. Box 201, Bulawayo, Rhodesia, South Africa.

1873. Griffiths, John Alfred, Patent Office, Brisbane, Queensland.

1889. Grimshaw, James Walter, Resident Engineer, Harbours and Rivers Department, Sydney, New South Wales; and Australian Club, Sydney, New South Wales.

1891. Groom, Richard Alfred, Shropshire Works, Wellington, Salop.

1879. Grose, Arthur, Messrs. Grose Norman and Co., Reliance Works, Northampton.

1886. Grove, David, 24 Friedrich Strasse, Berlin.

1898. Grover, Frederick, Greek Street Chambers, Leeds.

1898. Guest, Charles Henry, General Manager, Messrs. R. W. Webb, Draycott, near Derby. [*Tyre, Draycott.* 1632.]

1900. Guest, James John, Cornwall Buildings, Newmarket Street, Birmingham.

1884. Gulland, James Ker, Diamond Drill Co., 8 Victoria Street, Westminster, S.W. [*Gulland, London.*]

1870. Gwynne, James Eglinton Anderson (*Life Member*), Brooke Street Works, Holborn, London, E.C. [*Gwynnegram, London.*]

1870. Gwynne, John, Hammersmith Iron Works, Hammersmith, London, W.; and 81 Cannon Street, London, E.C. [*Gwynne, London.*]

1902. Haarer, Ernest Du Chaillu, The Hydraulic Engineering Co., 19 Oldhall Street, Liverpool. [6057.]

1899. Hacking, William Henry, Lord Street, Bury, Lancashire.

1888. Hadfield, Robert Abbott, Hecla Foundry Steel Works, Sheffield. [*Hadfield, Sheffield.*]

1894. Haigh, Noel Newall, Messrs. W. B. Haigh and Co., Globe Iron Works, Plane Street, Oldham; and Heath Bank, Watersheddings, Oldham.

1895. Haines, Charles James, Southampton Water Works, Otterbourne, near Winchester.

1900. Halcomb, Sydney Broughton, Messrs. Sanderson Brothers and Co., Sheffield. [*Sanderson, Sheffield.* 69.]

1897. Haldane, John Wilton Cuninghame, 43 Mulgrave Street, Liverpool.

1884. Hall, Albert Francis, George F. Blake Manufacturing Co., Third Street, East Cambridge, Massachusetts; and 3 Cordis Street, Charlestown, Boston, Massachusetts, United States.

1894. Hall, Henry Platt, Messrs. Platt Brothers and Co., Hartford New Works, Oldham.

1881. Hall, John Percy, Carville, Lawrie Park Road, Sydenham, London, S.E.

1882. Hall, John Willim, 71 Temple Row, Birmingham.

1890. Hall, Oscar Standring, Messrs. Robert Hall and Sons, Hope Foundry, Bury, Lancashire; and Park Cottage, Bury, Lancashire.

1874. Hall, Thomas Bernard, Messrs. T. Bernard Hall and Jones, 119 Colmore Row, Birmingham; and Ingleside, Sandon Road, Edgbaston, Birmingham. [*Tamar, Birmingham.*]

1900. Hall, William Brasier, Controller's Department, Admiralty, Whitehall, London, S.W.

1871. Hall, William Silver, 3 Mitsu Bishi Building, Yayesucho, Tokyo, Japan; (or care of Messrs. Takata and Co., 88 Bishopsgate Street Within, London, E.C.) [*Silverhall, Tokyo.*]

1889. Hall-Brown, Ebenezer, Messrs. Hall-Brown Buttery and Co., Helen Street Engine Works, Govan, Glasgow. [*Triple, Glasgow.* South Side 1843.]

1880. Hallett, John Harry, 123 Bute Street, Cardiff. [*Consulting, Cardiff.*]

1871. Halpin, Druitt, 17 Victoria Street, Westminster, S.W. [*Halpin, London.* Westminster 75, care of Victoria Chambers Co.]

1898. Halstead, Arthur Frederick, Gorton Villa, Allenhays Road, Salcombe, R.S.O., Devon.

1895. Halstead, John Henry, La Administracion, Ferro Carril Central del Uruguay, Monte Video, Uruguay: (or 24 Alma Road, Birkdale, Southport.)

1900. Hambly, John, Messrs. Hambly and Mangold, P.O. Box 336, Port Elizabeth, South Africa.

1894. Hamer, Walter, Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton. [*Dobsons, Bolton.*]

1894. Hamilton, Robert, Resident Engineer, Caledonia Estate, Province Wellesley, Penang, Straits Settlements.

1898. Hammett, John George, Mahalakshini Station Road, Bombay, India.

1899. Hammond, Robert, 64 Victoria Street, Westminster, S.W. [*Hammond, London.* Westminster 495.]

1875. Hammond, Walter John, The Grange, Knockholt, near Sevenoaks.

1886. Hanbury, John James, Edgeley, 141 Walm Lane, Cricklewood, London, N.W.

1899. Hancock, Samuel, Eastern Extension Telegraph Co., Singapore, Straits Settlements.

1896. Handyside, Charles Baird, Messrs. Holmes and Co., Examiner Buildings, Manchester.

1891. Harcourt, Otto Simon Henry, Clarence Iron Works, Leeds.

1894. Harding, James Cooper, Messrs. T. Richardson and Sons, Hartlepool Engine Works, Hartlepool.

1881. Hardingham, George Gatton Melhuish, Clun House, Surrey Street, London, W.C. [*Hardingham, London.*]

1883. Hardy, John George, 13 Riemergasse, Stadt, Vienna.

1869. Harfield, William Horatio, Arundel House, Thames Embankment, London, W.C. [*Harfield, London.*]

1887. Hargraves, Richard, 4 Richmond Terrace, Blackburn.

1887. Hargreaves, John Henry, Messrs. Hick Hargreaves and Co., Soho Iron Works, Crook Street, Bolton.

1888. Harker, William, Messrs. Richard Schram and Co., Cannon Street House, London, E.C. [*Schram, London.*]

1898. Harlock, Edward Baker, Messrs. Brunner, Mond and Co., Middlewich.

1894. Harmer, Oscar, Messrs. Alfred Herbert and Co., Coventry; and Hopedale, Spencer Park, Coventry.

1899. Harrap, George Thomas, 5 Budge Row, Cannon Street, London, E.C.

1891. Harris, Gordon, Messrs. Merryweather and Sons, Fire-Engine Works, Greenwich Road, London, S.E.

1879. Harris, Henry Graham, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W. [*Wellbram, London.* Westminster 60.]

1900. Harris, Lloyd Price, Works Manager, Messrs. Grafton and Co., Vulcan Works, Bedford.

1873. Harris, Richard Henry (*Life Member*), 63 Queen Victoria Street, London, E.C.; and Oak Hill, Surbiton, R.O., near Kingston-on-Thames.

1902. Harris, William, Marine Engineer, Great Western Railway, Paddington, London, W. [*Dunster, Paddington Station.*]

1877. Harris, William Wallington, Messrs. A. M. Perkins and Son, 6 Seaford Street, Regent Square, London, W.C.; and 24 Alexandra Road, Hornsey, London, N.

1900. Harrison, Campbell Grove, Messrs. Lloyd and Lloyd, Coombs Wood, Halesowen, near Birmingham; and Bundle Hill, Halesowen, Birmingham.

1898. Harrison, Frank, Messrs. Marshall, Sons and Co., 99 Clive Street, Calcutta, India.

1885. Harrison, Frederick Henry, Lincoln Malleable Iron Works, Lincoln. [*Malleable, Lincoln.*]

1888. Harrison, George, Messrs. D. Young and Co., 11 and 12 Southampton Buildings, London, W.C. [*Junkring, London.* Holborn 893.]

1889. Harrison, Major Gilbert Harwood, R.E., R.E. Office, Cairo, Egypt.

1885. Harrison, Joseph, Royal College of Science, Exhibition Road, South Kensington, London, S.W.

1891. Harrison, Joseph Hutchinson, Messrs. Howson and Harrison, 2 Exchange Place, Middlesbrough; and Clifford Villa, Coatham, Redcar.

1887. Harrison, Thomas Henry, Messrs. Davey Paxman and Co., 78 Queen Victoria Street, London, E.C.

1894. Harrison, William John, Locomotive Superintendent, Cia. Paulista, Rio Claro, São Paulo, Brazil; and 44 Bournemouth Road, Folkestone.

1890. Harrison, William Robert, 21 Scale Lane, Hull. [*Arbitrate, Hull.* 375.]

1883. Hart, Frederick, 36 Prospect Street, Poughkeepsie, New York, United States.

1901. Hartley, William Archbold, Messrs. Charles Cammell and Co., Cyclops Steel and Iron Works, Sheffield.

1872. Hartnell, Wilson, Volt Works, Leeds. [*Hartnell, Leeds.* 282.]

1892. Harvey, Francis Haniel, Messrs. Harvey and Co., Hayle Foundry, Hayle, Cornwall.

1886. Harvey, John Boyd, North's Navigation Collieries, Tondû, near Bridgend, Glamorganshire.

1883. Harvey, Sir Robert, 1 Palace Gate, London, W.

1897. Harvey, Robert, Managing Director, Messrs. McOnie, Harvey and Co., Scotland Street Engine Works, Glasgow. [*Maconie, Glasgow.* Royal 565.]

1878. Harwood, Robert, Soho Iron Works, Bolton.

1881. Haslam, Sir Alfred Seale, M.P., Union Foundry, Derby. [*Zero, Derby.*]

1898. Haslam, William Gilbert, Union Foundry, Derby.

1902. Haswell, Frederick John, Superintendent, Liverpool Hydraulic Power Co., Athol Street, Liverpool, N. [1122.]

1899. Hatch, William Thomas, Engineer-in-Chief, Metropolitan Asylums Board, Victoria Embankment, London, E.C.

1900. Hattersley, Robert Lund, Woodsend Works, Flixton, near Manchester.

1885. Hatton, Robert James, Henley's Telegraph Works, North Woolwich, London, E.

1892. Hawkins, Rupert Skelton, Locomotive and Carriage Superintendent, Assam and Bengal Railway, Pahartali P.O., Chittagong, India.

1861. Hawkins, William Bailey, 39 Lombard Street, London, E.C.

1870. Hawksley, Charles, 30 Great George Street, Westminster, S.W.

1891. Hawksley, George William, Brightside Boiler and Engine Works, Savile Street East, Sheffield. [*Hawksley, Sheffield.* 327.]

1900. Hawksley, Kenneth Phipson, 30 Great George Street, Westminster, S.W.

1882. Hayes, Edward, Watling Works, Stony Stratford. [*Hayes, Stony Stratford.*]

1879. Hayes, John, St. David's Road, Carnarvon.

1902. Hayward, Thomas William Alfred, Borough and Waterworks Engineer, Town Hall, Sudbury, Suffolk.

1885. Head, Archibald Potter, Messrs. Jeremiah Head and Son, 47 Victoria Street, Westminster, S.W. [*Principium, London.* Westminster 237]; and Queen's Square, Middlesbrough.

1888. Head, Harold Ellershaw, 23 Rugby Mansions, Addison Bridge, London, W.

1857. Healey, Edward Charles, 33 Norfolk Street, Strand, London, W.C.

1890. Heap, Ray Douglas Theodore, 21 Lee Park, Blackheath, London, S.E.

1872. Heap, William, 28 Chapel Street, Liverpool. [*Metal, Liverpool.* Central 809.]

1898. Hearson, Hugh Reginald, 1 The Bund, Shanghai, China.

1898. Heath, Ashton Marler, Office of the Crown Agents for the Colonies, Downing Street, London, S.W.

1899. Heath, Elijah Arthur, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.

1889. Heath, George Wilson, Messrs. Heath and Co., Observatory Works, Crayford, Kent.

1888. Heatly, Harry, Messrs. Heatly and Gresham, 110 Cannon Street, London, E.C.; and Ballygunge, West Hill Road, Wandsworth, London, S.W.

1897. Heaton, Charles, Brades Steel Works, near Birmingham. [*Brades, Birmingham.*]

1897. Heaton, George, Brades Steel Works, near Birmingham. [*Brades, Birmingham.*] (Former Member 1860–1869.)

1899. Hedley, Robert, 3 Summerhill Grove, Newcastle-on-Tyne.

1875. Heenan, Hammersley, Messrs. Heenan and Froude, Newton Heath Iron Works, near Manchester; and The Manor House, Wilmslow, near Manchester. [*Spherical, Newton Heath.* 966 A.]

1895. Heinke, Edwin Harry Alfred, care of Miss F. Heinke, 6 Downleaze, Stoke Bishop, near Bristol.

1879. Hele-Shaw, Henry Selby, LL.D., F.R.S., Professor of Engineering, University College, Liverpool.

1901. Helme, Edward Tyas, Low Moor Iron Works, near Bradford.

1888. Henning, Gustavus Charles, 521 W 142nd Street, New York, United States.

1879. Henriques, Cecil Quixam, Messrs. John H. Wilson and Co., 15 Victoria Street, Westminster, S.W. [*Drague, London.*]

1875. Hepburn, George, Redcross Chambers, Redcross Street, Liverpool. [*Hepburn, Liverpool.*]

1900. Hepworth, John William, Messrs. Alcock, Ashdown and Co., Bombay, India.

1892. Herbert, Alfred, Machine-Tool Works, Coventry. [*Lathe, Coventry.* 52.]

1893. Herbert, Charles, 35 Queen Victoria Street, London, E.C. [*Mancunian, London.*]

1893. Herbert, George Henry, Messrs. Richard Hornsby and Sons, 75A Queen Victoria Street, London, E.C.

1894. Herman, Benjamin Richard, Messrs. B. R. Herman and Co., McLeod Road, Karachi, India. [*Herman, Karachi.* 47.]

1884. Hernu, Arthur Henry, 69 Victoria Street, Westminster, S.W.

1894. Herriot, William Scott, 19 Kier Street, Pollokshields, Glasgow.

1884. Hervey, Matthew Wilson, Assistant Engineer, West Middlesex Water Works, Hammersmith, London, W.

1879. Hesketh, Everard, Messrs. J. and E. Hall, Iron Works, Dartford. [*Hesketh, Dartford.*]

1897. Hetherington, Edward Palmer, Messrs. John Hetherington and Sons, Vulcan Works, Pollard Street, Manchester.

1872. Hewlett, Alfred, Haseley Manor, Warwick.

1885. Hicken, Thomas, Messrs. Agar, Cross and Co., 136 Calle Defensa, Buenos Aires, Argentine Republic: (or care of Miss Hicken, Bourton, near Rugby.)

1896. Higby, Robert George, Sitarampur, Bengal, India.

1894. Higginbottom, Lloyd, Messrs. Higginbottom and Mannock, Crown Iron Works, West Gorton, Manchester.

1902. Hignett, Arthur Holland, Engineer-in-Chief, Messrs. A. Guinness Son and Co., St. James's Gate Brewery, Dublin.

1879. Higson, Jacob, Crown Buildings, 18 Booth Street, Manchester.

1901. Hill, Alfred John, Manager, Locomotive, Carriage and Wagon Works, Great Eastern Railway, Stratford, London, E.

1883. Hill, John Kershaw, Engineer and Manager, West Surrey Water Works, High Street, Walton-on-Thames.

1901. Hill, Joseph, St. George's Engineering Works, Wood's Lane, Derby. [*Hill, Derby.* 227.]

1885. Hill, Robert Anderson, 14 Third Avenue, Hove, Sussex.

1900. Hill, Walter Scott, Engineer R.N., care of Walter Hill, Rosebank, Peterborough.

1890. Hiller, Edward George, Chief Engineer, National Boiler Insurance Co., 22 St. Ann's Square, Manchester.

1882. Hiller, Henry, Consulting Engineer, National Boiler Insurance Co., 22 St. Ann's Square, Manchester; and Athelney, Stanley Road, Alexandra Park, Manchester.

1899. Hiller, Henry King, Engineer, Gas Company, Shanghai, China.

1873. Hilton, Franklin, 45 Talbot Street, Southport.

1898. Hipkins, William Edward, Managing Director, Messrs. James Watt and Co., Soho Foundry, Smethwick, Birmingham.

1897. Hiraoka, Hiroshi, Hiraoka Engineering Works, Honjo, Tokyo, Japan. [*Herocar, Tokyo.*]

1897. Hirst, James, Chief Engineer, Mount Morgan Gold Mining Co., Mount Morgan, Queensland.

1896. Hitchcock, Cyril, District Locomotive Superintendent, North Western Railway, Rawal Pindi, Punjaub, India.

1899. Hitchins, Charles Faunce, 25 Victoria Street, Westminster, S.W.; and Junior Constitutional Club, Piccadilly, London, W.

1898. Hobbs, Charles James, Hydraulic Engineering Co., 9 Bridge Street, Westminster, S.W.

1900. Hobson, John Edward, Engine and Boiler Insurance Co., 12 King Street, Manchester.

1891. Hodge, Arthur, Institution of Mining and Metallurgy, 722 Salisbury House, London Wall, London, E.C.

1891. Hodges, Frank Grattidge, Locomotive Department, Midland Railway, Burton-on-Trent.

1897. Hodges, Frank William, Vauxhall Iron Works, Wandsworth Road, London, S.W.; and Alma, Balaclava Road, Surbiton.

1896. Hodges, Marcus Henry, Messrs. Hodges Brothers, City Basin Iron Works, Exeter.

1870. Hodges, Petronius, Messrs. Charles Cammell and Co., Cyclops Steel and Iron Works, Sheffield.

1880. Hodgson, Charles, Messrs. Saxby and Farmer, Railway Signal Works, Canterbury Road, Kilburn, London, N.W. [*Signalmen, London.* Kilburn 421.]

1901. Hodgson, Ealey, Messrs. Fraser and Chalmers, Erith, S.O., Kent.

1889. Hodgson, George Herbert, Frizinghall Works, Bradford.

1899. Hodgson, Henry, Messrs. Scott and Hodgson, Guide Bridge Iron Works, Guide Bridge, near Manchester. [*Engines, Hooley Hill.* 67.]

1892. Hodgson, Henry Edwin, Brookhouse Iron Works, Cleckheaton, S.O., Yorkshire.

1900. Hodgson, William, Messrs. Hodgson and Stead, Egerton Iron Works, Windsor Street, Salford, Manchester. [*Weighing, Manchester.* 1461.]

1891. Hogarth, Thomas Oswald, Great Western Railway Works, Swindon.

1889. Hoggins, Alfred Farquharson, Brush Electrical Engineering Co., Falcon Works, Loughborough.

1866. Holcroft, Thomas, Bilston Foundry, Bilston.

1886. Holden, James, Locomotive Superintendent, Great Eastern Railway, Stratford Works, London, E.

1899. Holden, Robert, Superintendent Mechanical Engineer, County Borough of West Ham, London, E.; and Birnell House, Canning Town, London, E.

1895. Holgate, Charles Henzell, School Close Works, Leeds.

1895. Holliday, John, Messrs. A. Guinness, Son and Co., St. James' Gate Brewery, Dublin.

1885. Hollis, Henry William, Norbiton Hall, Kingston-on-Thames.

1896. Holman, Frederick, Messrs. N. Holman and Sons, Penzance Foundry, Penzance.

1891. Holman, Hugh Wilson, Messrs. E. J. Caiger and Co., 92 Billiter Buildings, Billiter Street, London, E.C. [*Caiger, London.*]

1899. Holmes, John Henry, Portland Road, Newcastle-on-Tyne; and Wellburn, Jesmond, Newcastle-on-Tyne.

1896. Holmes, Percy Frederick, Messrs. W. C. Holmes and Co., Whitestone Iron Works and Turnbridge Foundries, Huddersfield. [*Holmes, Huddersfield.* 113.]

1892. Holmström, Carl Albert, Messrs. W. Beardmore and Co., Parkhead Forge and Steel Works, Glasgow.

1873. Holt, Henry Percy, 15 Kensington Court, London, W.

1888. Homan, Harold, Messrs. Homan and Rodgers, 10 Marsden Street, Manchester. [*Namoh, Manchester.* 637.]

1895. Homfray, Samuel George, Sir W. G. Armstrong, Whitworth and Co., 8 Great George Street, Westminster, S.W.

1898. Honiball, Charles Roland, Maritime Engine Works, 10 Great Mersey Street, Liverpool. [*Honiball, Liverpool.* Central 5755.]

1890. Hooker, Benjamin, Blackhorse Lane, Walthamstow, London, N.E.

1892. Hope, John Basil, Assistant Locomotive Superintendent, Midland Great Western Railway, Dublin.

1885. Hopkinson, Charles, Werneth Chambers, 29 Princess Street, Manchester.

1894. Hopkinson, Edward, D.Sc., Messrs. Mather and Platt, Salford Iron Works, Manchester.

1856. Hopkinson, John, Inglewood, St. Margaret's Road, Bowdon, near Altrincham.

1877. Hopkinson, Joseph, Messrs. Joseph Hopkinson and Co., Britannia Works, Huddersfield. [*Hopkinson, Huddersfield.* 169.]

1890. Hopper, Allan, Messrs. William Hopper and Co., Moscow, Russia.

1890. Hopper, James Russell, Messrs. William Hopper and Co., Moscow, Russia.

1889. Hopwood, John, Locomotive Superintendent, Argentine Great Western Railway, Mendoza, Argentine Republic.

1895. Horner, John, Clonard Foundry, Belfast.

1880. Hornsby, James, Messrs. Richard Hornsby and Sons, Spittlegate Iron Works, Grantham. [*Hornsbys, Grantham.*]

1891. Horsfield, Ralph, Messrs. Ralph Horsfield and Co., Bredbury, Woodley, Stockport.

1873. Horsley, Charles, 22 Wharf Road, City Road, London, N.

1892. Horsnell, Daniel, 79 Farringdon Road, London, E.C.

1868. Horton, Enoch, Alma Works, Darlaston, near Wednesbury.

1886. Hosgood, John Howell, Locomotive and Hydraulic Superintendent, Barry Dock and Railways, Barry, near Cardiff.

1899. Hosgood, Octavious Sidney, Electric Light and Tramways Department, Roath Power Station, Roath, Cardiff.

1891. Hosgood, Walter James, Locomotive Department, Port Talbot Railway and Docks, Port Talbot.

1889. Hosken, Richard, P.O. Box 667, Johannesburg, Transvaal, South Africa: (or care of J. Hosken, 27 Mincing Lane, London, E.C.)

1901. Hough, Edward Stamford, Fenchurch Station Chambers, 66 Fenchurch Street, London, E.C.

1866. Houghton, John Campbell Arthur, Sparnon, Torquay.

1898. Houghton, Reginald James, Electrical Copper Co., Ditton Road, Widnes; and Sunnyside, Hough Green, near Widnes.

1889. Houghton, Thomas Harry, 63 Pitt Street, Sydney, New South Wales: (or care of Messrs. James Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.) [*Expansion, Sydney.*]

1887. Houghton-Brown, Ernest, Messrs. Houghton-Brown Brothers, Kingsbury Iron Works, Ballspond, London, N.

1896. House, Henry Alonzo, Bridgeport, Connecticut, United States.

1895. House, Henry Alonzo, Jun., 7 St. James' Mansions, West End Lane, London, N.W.

1891. How, William Field, Mutual Life Buildings, George Street, Sydney, New South Wales. [*Alaska, Sydney.*]

1864. Howard, Eliot, Messrs. Hayward Tyler and Co., 90 Whitecross Street, London, E.C.

1897. Howard, Henry Fox, Messrs. Hayward, Tyler and Co., 90 Whitecross Street, London, E.C.

1879. Howard, James Harold, Britannia Iron Works, Bedford; and The Grange, Kempston, Bedford.

1882. Howard, John William, Gloucester Wagon Works, Gloucester.

1896. Howarth, Alfred Montgomery, Railway Construction Department, Public Works Office, Sydney, New South Wales.

1885. Howarth, William, Manager, Oldham Boiler Works, Oldham. [*Boilers, Oldham.*]

1901. Howe, Henry Bryant, General Works Manager, Government Railways, Eveleigh Works, Sydney, New South Wales.

1861. Howell, Joseph Bennett, Messrs. Howell and Co., Brook Steel Works, Brookhill, Sheffield [*Howell, Sheffield.*]; and The Tower, Hathersage, near Sheffield.

1877. Howell, Samuel Earnshaw, Messrs. Howell and Co., Brook Steel Works, Brookhill, Sheffield. [*Howell, Sheffield.*]

1892. Howitt, James John, Messrs. Bowman Thompson and Co., Lostock Gralam, Northwich; and Dunley, Knutsford.

1882. Howl, Edmund, Messrs. Lee Howl and Co., Tipton. [*Howl, Tipton.*]

1877. Howlett, Francis, Messrs. Clayton, Howlett and Co., 28 Victoria Street, Westminster, S.W. [*Brickpress, London.*]

1891. Hoy, Henry Albert, Chief Mechanical Engineer, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1887. Hoyle, James Rossiter, Messrs. Thomas Firth and Sons, Norfolk Works, Sheffield.

1891. Hubback, Charles Arbuthnot, 30 Glynrhondda Street, Cathays, Cardiff.

1898. Hudson, Francis James, District Locomotive Superintendent, Midland Railway, Gorton, Manchester; and Earnock, Marple, Stockport.

1882. Hudson, John George, Messrs. Hick Hargreaves and Co., Soho Iron Works, Crook Street, Bolton; and Glenholme, Bromley Cross, Bolton.

1884. Hudson, Robert, Gildersome Foundry, near Leeds [*Gildersome, Leeds.* Central 14.]; and Weetwood Mount, Headingley, near Leeds. [Headingley 4.]

1893. Hudson, William, Ahmedabad, Bombay, India; and Stocks Lane, Stalybridge.

1881. Hughes, Edward William Mackenzie, Managing Director, Hughes' Solid Rolled Axle-Box Co., 53 Victoria Street, Westminster, S.W.; and 1 The Terrace, Thurlow Park Road, West Norwood, London, S.E. [*Sirhind, London.*]

1899. Hughes, George, Locomotive Department, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1867. Hughes, George Douglas, Leen Side Works, Nottingham.

1889. Hughes, John, Messrs. Hughes and Lancaster, 47 Victoria Street, Westminster, S.W.

1891. Hughes, Robert M., District Engineer, Bengal-Nagpur Railway, Cuttack, Bengal, India.

1900. Hughes, Thomas William Robert, 59 Catford Hill, London, S.E.

1897. Hulse, Richard Lamplough, The Grove, Withington, Manchester.

1899. Humphrey, Herbert Alfred, 38 Victoria Street, Westminster, S.W [*Gazonner, London.*]

1900. Humphreys, Henry Howard, 28 Victoria Street, Westminster, S.W.

1866. Humphrys, Robert Harry, Messrs. Humphrys Tennant and Co., Deptford Pier, London, S.E.

1894. Humpidge, James Dickerson, Messrs. Humpidge, Holborow and Co., Dudbridge Iron Works, Stroud, Gloucestershire [*Humpidge, Cainscross.*]; and Southfields House, Woodchester, Stroud, Gloucestershire.

1898. Hunt, Robert Woolston, 1137 The Rookery, Chicago, Illinois, United States.

1901. Hunt, William, Messrs. Hunt, Sons and Bright, 10 Low Pavement, Nottingham.

1889. Hunter, Charles Lafayette, Engineer, Bute Docks, Cardiff.

1899. Hunter, George Lewis, Messrs. T. and W. Smith, Guildhall, Newcastle-on-Tyne.

1886. Hunter, John, Messrs. Campbells and Hunter, Dolphin Foundry, Saynor Road, Hunslet, Leeds.

1877. Hunter, Walter, 17 Victoria Street, Westminster, S.W. [Westminster 75.]

1900. Hurst, Isaac Edwin, Fleet Engineer R.N., 12 St. Margaret's Street, Rochester.

1899. Hutson, Charles Alfred, Messrs. C. A. Hutson and Co., Ceylon Engineering Works, Colombo, Ceylon.

1888. Huxley, George, 20 Mount Street, Manchester.

1894. Hyde, George Herbert (*Life Member*), Government Factory, Colombo, Ceylon.

1885. Hyland, John Frank, Government Railways, Sekondi, Gold Coast, West Africa: (or care of Messrs. Lewis and Hyland, New Rents, Ashford, Kent.)

1900. Iddon, James, Brookfield Iron Works, Leyland, near Preston.
1896. Iden, George, Motor Mills, Coventry.
1877. Imray, John, Messrs. Abel and Imray, Birkbeck Bank Chambers, Southampton Buildings, London, W.C.
1882. Ingham, William, 11 Blackfriars Street, Manchester. [4626.]
1895. Ingham, William, Water Engineer, Torquay.
1888. Ingleby, Joseph, 20 Mount Street, Manchester.
1883. Instone, Thomas, 101 Leadenhall Street, London, E.C.
1894. Iorns, Charles Risbec, 11 Kyverdale Road, Stoke Newington, London, N.
1892. Irons, Thomas, Messrs. Hudson Brothers, Clyde Engineering Works, Granville, New South Wales.
1898. Irwin, Delacherois Hastings, Managing Director, Messrs. Crossley Brothers, Openshaw, Manchester. [*Crossleys, Openshaw.*]
1895. Isaac, Robert, Messrs. Owen, Isaac and Owen, Union Iron Works, Portmadoc. [*Isaac, Portmadoc.*]
1887. Ivatt, Henry Alfred, Locomotive Engineer, Great Northern Railway Doncaster.

1884. Jacks, Thomas William Moseley, Patent Shaft Works, Wednesbury; and Hill Side, Brunswick Terrace, Wednesbury.
1898. Jackson, Algernon Brooker, 16 Great Tower Street, London, E.C.
1899. Jackson, Sir John, F.R.S.E., 53 Victoria Street, Westminster, S.W. [*Cofferdam, London.*]
1895. Jackson, Robert Cattley, care of Dr. Stroud, 10 Claremont Terrace, Newcastle-on-Tyne.
1886. Jackson, Thomas, Woodlands View, Horsforth, near Leeds.
1889. Jackson, William, Thorn Grove, Mannofield, Aberdeen.
1876. Jacobs, Charles Mattathias, 78 Gracechurch Street, London, E.C. [*Vexillum, London.*]
1901. Jacobs, Lieut. Joseph John, R.E., 63 Marine Parade, Sheerness.
1878. Jakeman, Christopher John Wallace, Manager, Messrs. Merryweather and Sons, Tram Locomotive Works, Greenwich Road, London, S.E.
1893. James, Arthur William, Calcutta Landing and Shipping Co., 24 Strand Road, Calcutta, India.
1900. James, Charles, Jun., Messrs. Richard Hornsby and Sons, Spittlegate Iron Works, Grantham.
1889. James, Charles William, 8 Ardgowan Road, Catford, London, S.E.
1895. James, Christopher William, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.
1895. James, Enoch, 1 Ashburton Terrace, Middlesbrough.
1899. James, Herbert Holland, care of Frank James, Silkmore Hall, Stafford.
1889. James, Reginald William, 1 Queen Victoria Street, London, E.C.

1899. James, Thomas, Carriage and Wagon Department, Midland Railway, Derby.

1898. James, William Henry, College of Engineering, Madras, India.

1879. Jameson, George, Messrs. John Jameson and Son, Bow Street Distillery, Dublin.

1881. Jameson, John, Messrs. Jameson and Schaeffer, 2 Akenside Hill, Newcastle-on-Tyne. [*Jameson, Newcastle-on-Tyne.* P.O. 226.]

1888. Jaques, Captain William Henry, Little Boar's Head, New Hampshire, United States.

1888. Jeejeebhoy, Piroshaw Bomanjee, 17 Church Street, Bombay, India.

1901. Jefferies, Harold Sellis, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich. [*Ransomes, Ipswich.* 11.]

1881. Jefferiss, Thomas, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham. [*Tangyes, Birmingham.*]

1877. Jeffreys, Edward Homer, Hawkhills, Chapel Allerton, Leeds.

1901. Jenkin, Bernard Maxwell, 17 Victoria Street, Westminster, S.W. [*Kinematic, London.*]

1893. Jenkin, Charles Frewen, 4 Vanbrugh Park Road West, Blackheath, London, S.E.

1894. Jenkin, Thomas Henry, Messrs. J. Jamieson and Co., Queen's Dock Chambers, Hull. [*Propeller, Hull.* 94.]

1880. Jenkins, Rhys, Patent Office, 25 Southampton Buildings, London, W.C.

1892. Jenkins, William John, Messrs. W. J. Jenkins and Co., Beehive Works, Retford.

1896. Jenkinson, Thomas, Messrs. Pilkington Brothers, Plate Glass Works, St. Helens, Lancashire.

1893. Jennins, Henry Horwood, Messrs. Edwin Oldroyd and Co., Crown Works, Leeds. [*Calorifics, Leeds.* Central 241.]

1878. Jensen, Peter, 77 Chancery Lane, London, W.C. [*Venture, London.*]

1889. Jessop, George, Messrs. Jessop and Appleby Brothers, London Steam-Crane and Engine Works, Leicester. [*Jessop, Leicester.*]

1897. Johns, Cosmo, Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1896. Johnson, Andrew, Sanctuary House, Westminster, S.W.

1890. Johnson, John William, care of Baron L. Knoop, Maison de la Banque des Marchands, Ilyinka, Moscow, Russia.

1891. Johnson, Lacey Robert, Assistant Superintendent of Rolling Stock, Canadian Pacific Railway, Montreal, Canada.

1888. Johnson, Lawrence Potter, Insein, Lower Burma: (or 9 Blackheath Rise, Lewisham, London, S.E.)

1861. Johnson, Samuel Waite, Locomotive Superintendent, Midland Railway, Derby.

1896. Johnston, James, Chief Engineer, Brighton Corporation Water Works, 12 Bond Street, Brighton. [140.]

1895. Johnstone, Major James Henry L'Estrange, R.E. (*Life Member*), President, Egyptian Railway and Telegraph Administration, Cairo, Egypt.

1882. Jolin, Philip, 25 Temple Street, Bristol.

1891. Jones, Charles Frederick, 85 Davenport Street, Bolton.

1871. Jones, Charles Henry, Assistant Locomotive Superintendent, Midland Railway, Derby.

1873. Jones, Edward, Broomfield House, Perry Barr, Birmingham.

1884. Jones, Felix, Messrs. Jones and Foster, 39 Bloomsbury Street, Birmingham.

1878. Jones, Frederick Robert, Superintending Engineer, Sirmoor State, Nahan, near Umballa, Punjaub, India: (or care of Messrs. Richard W. Jones and Co., Newport, Monmouthshire.)

1867. Jones, George Edward, Eastern Bengal Railway, Kanchrapara, Bengal, India.

1878. Jones, Harry Edward, Engineer, Commercial Gas Works, Stepney, London, E.

1881. Jones, Herbert Edward, Locomotive, Carriage and Wagon Superintendent, Cambrian Railways, Oswestry.

1890. Jones, Morlais Glasfryn, 6 Delahay Street, Westminster, S.W.

1882. Jones, Samuel Gilbert, Steanbridge House, near Stroud, Gloucestershire.

1887. Jones, Thomas, Central Board School, Deansgate, Manchester; and 4 Manley Road, Alexandra Park, Manchester.

1900. Jones, Walter, Titan Works, Stourbridge.

1872. Jones, William Richard Sumption, Whitehall Court, London, S.W.

1883. Jordan, Edward, Manager, Cardiff Junction Dry Dock and Engineering Works, Cardiff.

1891. Jordan, Henry George, Jun., Municipal Technical School, Princess Street, Manchester; and 6 Manley Road, Whalley Range, Manchester.

1880. Joy, David, 85 Gracechurch Street, London, E.C.; and 118 Broadhurst Gardens, West Hampstead, London, N.W. (Former Member 1853–1867.)

1891. Judd, Joseph Henry, School Board Offices, Manchester.

1878. Jüngermann, Carl, 9 Nettelbeck Strasse, Berlin, W., Germany.

1884. Justice, Howard Rudulph, 55 and 56 Chancery Lane, London, W.C. [*Syng, London.* Holborn 3.]

1888. Kapteyn, Albert, 11 Kurhausstrasse, Zürich, Switzerland.

1899. Kay, George, Queen's Road, Nottingham. [*Kay, Nottingham.* 855.]

1869. Keen, Arthur, London Works, near Birmingham. [*Globe, Birmingham.*]

1883. Keen, Francis Watkins, London Works, near Birmingham.

1901. Keightley, Alfred Percival, Messrs. Marshall, Sons and Co., 8 Hummum Street, Bombay, India.

1899. Kekewich, George Ormond, Middlesex County Council, Guildhall, Westminster, S.W. [Westminster 218.]

1881. Kendal, Ramsey, Locomotive Department, North Eastern Railway, Darlington.

1879. Kennedy, Alexander Blackie William, LL.D., F.R.S., Emeritus Professor of Engineering, University College, London, 17 Victoria Street, Westminster, S.W. [*Kinematic, London.*]

1892. Kennedy, Thomas, The Glenfield Engineering Works, Kilmarnock.

1875. Kenrick, George Hamilton, Messrs. A. Kenrick and Sons, Spon Lane, Westbromwich; and Whetstone, Somerset Road, Edgbaston, Birmingham.

1892. Kensington, Frederick, 2 Copthall Buildings, London, E.C.

1896. Kerr, Alfred Ernest Campbell (*Life Member*), 161 Dana Street, Ballarat, Victoria.

1866. Kershaw, John, Villa Eugénie-Louise, Boulevard des Moulins, Monte Carlo.

1884. Kershaw, Thomas Edward, Chilvers Coton Foundry, Nuneaton.

1885. Keyworth, Thomas Egerton, Central Cuban Railways, Sagua la Grande Cuba: (or care of J. R. H. Keyworth, 28 Grosvenor Road, Birkenhead.)

1885. Kidd, Hector, Colonial Sugar Refining Co., Sydney, New South Wales.

1894. Kiernan, George, Manager, Messrs. Gresham and Craven, Craven Iron Works, Salford, Manchester.

1888. Kikuchi, Kyozo, Superintendent Engineer, Hirano Spinning Mill, Osaka, Japan.

1899. Kilgour, Martin Hamilton, Borough Electrical Engineer, Electric Works Offices, 2 Church Street, Cheltenham.

1895. King, Charles Penrose, Resident Engineer, Welbeck Water Works Extension; 3 Clarence Terrace, Holme Road, Matlock-Bath.

1900. King, Charles Philip, Works Manager, Messrs. Hayward Brothers and Eckstein, Union Iron Works, 187–193 Union Street, Borough, London, S.E.; and 67 Upper Richmond Road, Putney, London, S.W.

1897. King, Henry Charles, Great Western Railway Works, Swindon.

1895. King, Thomas Scott, Messrs. Davey Paxman and Co., Standard Iron Works, Colchester.

1872. King, William, Engineer, Liverpool United Gas Works, Duke Street, Liverpool.

1893. Kinghorn, John Warden, care of Messrs. Jardine Matheson and Co., Hong Kong, China.

1877. Kirk, Henry, Messrs. Kirk Brothers and Co., New Yard Iron Works, Workington. [*Kirks, Workington.*]

1884. Kirkaldy, John, 101 Leadenhall Street, London, E.C. [*Compactum, London.*]

1899. Kirkaldy, William George, 99 Southwark Street, London, S.E. [Hop 203.]

1875. Kirkwood, James, care of Commissioner of Customs, Kowloon, Hong Kong, China: (or Grange Park, Prestwick, Ayrshire.)

1859. Kitson, Sir James, Bart., M.P., Monk Bridge Iron Works, Leeds.

1874. Klein, Thorvald, 6 Derby Villas, Forest Hill, London, S.E.

1889. Knap, Conrad, 11 Queen Victoria Street, London, E.C.

1886. Knight, Charles Albert, Babcock and Wilcox Co., 21 Bothwell Street, Glasgow.

1890. Knight, James Percy, Kaiser Steam Tug Co., 27 Great Tower Street, London, E.C. [*Longboat, London.* Avenue 203.]

1900. Knowles, John, Messrs. Bradbury, Brady and Co., Bombay, India.

1896. Kwang, Kwong Yung (*Life Member*), Linsi Colliery; care of the Chinese Engineering and Mining Co., Tientsin, North China.

1898. Lackland, John James, Water Engineer, Town Hall, St. Helens, Lancashire. [69.]

1883. Lake, William Robert, 45 Southampton Buildings, London, W.C. [*Scopo, London.*]

1897. Lambert, William Fraser, Messrs. G. S. Goodwin and Co., 19 James Street, Liverpool.

1896. Lane, Francis Lawrence, Works Manager, Leeds Forge, Leeds.

1881. Langdon, William, Tower Hill, Looe, R.S.O., Cornwall.

1881. Lange, Frederick Montague Townshend, Parliament Mansions, Victoria Street, Westminster, S.W.

1879. Lapage, Richard Herbert, Sheen House, Walmer. [*Lapage, Walmer.*]

1888. Latham, Baldwin, Parliament Mansions, Victoria Street, Westminster, S.W.; and Duppas House, Old Town, Croydon.

1899. Latta, James Gilmore, 78 Billiter Buildings, London, E.C.

1890. Laurie, Leonard George, 15 Cardiff Road, Newport, Monmouthshire.

1867. Lawrence, Henry, 7 and 8 Post Office Chambers, Newcastle-on-Tyne.

1893. Lawrie, James, Government Marine Surveyors' Office, Penang, Straits Settlements.

1874. Laws, William George, Borough Engineer and Town Surveyor, Town Hall, Newcastle-on-Tyne; and 65 Osborne Road, Newcastle-on-Tyne. [*Engineer, Newcastle-on-Tyne.*]

1882. Lawson, Frederick William, Messrs. Samuel Lawson and Sons, Hope Foundry, Leeds.

1870. Layborn, Daniel, Messrs. Daniel Layborn and Co., Dutton Street, Liverpool.

1883. Laycock, William S., Victoria Street Works, Sheffield; and Ranmoor, Sheffield. [*Invention, Sheffield.* 907.]

1860. Lea, Henry, Messrs. Henry Lea and Son, 38 Bennett's Hill, Birmingham. [*Engineer, Birmingham.* 113.]

1892. Lea, Richard Henry, Messrs. Lea and Francis, Coventry.

1895. Lea, William Arthur, Compañia de Ferrocarriles del Distrito, Departmento de Construccion, Mexico City, Mexico.

1889. Leaf, Henry Meredith, Burlington Lodge, Streatham Common, London, S.W.

1883. Leavitt, Erasmus Darwin, Jun., 604 Main Street, Cambridgeport, Massachusetts, United States.

1890. Ledingham, John Machray, Royal Laboratory, Royal Arsenal, Woolwich.

1887. Lee, Cuthbert Ridley, Messrs. C. R. Lee and Co., Suffolk House, Laurence Pountney Hill, London, E.C.

1862. Lee, J. C. Frank, 6 Great Winchester Street, London, E.C.

1892. Lee, Richard John, Messrs. Harrison, Lee and Sons, City Foundry, Limerick.

1890. Lee, Samuel Edward, Messrs. Harrison, Lee and Sons, City Foundry, Limerick.

1863. Lees, Samuel, Messrs. H. Lees and Sons, Park Bridge Iron Works, Ashton-under-Lyne.

1889. Legros, Lucien Alphonse, 57 Brook Green, Hammersmith, London, W.

1896. Leisse, George Charles, Messrs. John Fowler and Co., Steam Plough and Locomotive Works, Leeds.

1898. Leopard, Charles William, 52 Queen Victoria Street, London, E.C. [Bank 657.]

1901. Leslie, William, Resident Engineer, Coolgardie Water Scheme, Mundaring, Western Australia.

1878. Lewis, Gilbert, 22 Wilmslow Road, Withington, Manchester.

1895. Lewis, Herbert William, Acting Senior Inspector of Boilers, Custom House, Bombay, India.

1884. Lewis, Sir William Thomas, Bart., Bute Mineral Estate Office, Aberdare; and Mardy, Aberdare.

1894. Liebert, Henry Anton, Messrs. John Holroyd and Co., Perseverance Works, Milnrow, Rochdale.

1880. Lightfoot, Thomas Bell, Cornwall Buildings, 35 Queen Victoria Street, London, E.C. [*Separator, London.*]; and 7 Eastcombe Villas, Charlton Road, Blackheath, London, S.E.

1901. Lindsay, Robert, Somerville House, Dundee.

1891. Lindsay, William Robertson, 7 Ward Road, Dundee.

1890. Lineham, Wilfrid James, Professor of Engineering and Mechanical Science, The Goldsmiths' Institute, New Cross, London, S.E.; and Jesmond, Leyland Road, Lee, London, S.E.

1856. Linn, Alexander Grainger, 121 Upper Parliament Street, Liverpool.

1876. Lishman, Thomas, Mining Engineer, Hetton Colliery, near Fence Houses.

1881. List, John, Superintendent Engineer, Messrs. Donald Currie and Co., Orchard Works, Blackwall, London, E.; and 3 St. John's Park, Blackheath, London, S.E.

1890. Lister, Robert Ramsbottom, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1900. Little, Edwin, R.N., Naval Construction Works, Barrow-in-Furness.

1901. Little, Gilbert, Managing Director, New Conveyor Co., Smethwick, Birmingham. [*Aptitude, Birmingham.* Smethwick 50.]

1890. Livens, Frederick Howard, Messrs. Ruston Proctor and Co., Sheaf Iron Works, Lincoln.

1900. Liversedge, Henry Thomas, Chief Engineer R.N., H.M.S. "Hermione," Malta.

1901. Livesey, George Thomas, South Metropolitan Gas Works, Old Kent Road, London, S.E.

1895. Livingston, James, 30 Great St. Helen's, London, E.C. [*Cinerary, London.*]

1886. Livsey, John Edward, 34 Octavia Street, Battersea, London, S.W.

1867. Lloyd, Charles, 78 Station Road, South Shore, Blackpool.

1854. Lloyd, George Braithwaite (*Life Member*), Edgbaston Grove, Birmingham.

1882. Lloyd, Robert Samuel, Messrs. Hayward Tyler and Co., 90 Whitecross Street, London, E.C.

1894. Lloyd, Sampson Zachary, Managing Director, Engineering Department, Messrs. Nettlefolds, Birmingham [*Nettlefolds, Birmingham.*]; and Areley Hall, Stourport.

1897. Loane, Samuel Joshua, Acting Chief Engineer, Madras Municipality, Municipal Office, Madras, India.

1900. Lobb, Christopher, Engineer, Messrs. W. Clowes and Sons, Duke Street, Stamford Street, London, S.E.

1898. Lobnitz, Fred, Messrs. Lobnitz and Co., Renfrew, near Paisley; and Clarence House, Renfrew, near Paisley.

1879. Lockhart, William Stronach, 67 Granville Park, Blackheath, London, S.E.

1883. Logan, Robert Patrick Tredennick, Engineer's Office, Great Northern Railway of Ireland, Dundalk.

1901. Longbotham, Robert Hall, Ingo Foundry, Wakefield. [*Engineer, Wakefield.* 44.]

1884. Longbottom, Luke, Locomotive Carriage and Wagon Superintendent, North Staffordshire Railway, Stoke-on-Trent.

1894. Longridge, Captain Cecil Clement, Swan House, Great Swan Alley, Copthall Avenue, London, E.C.

1880. Longridge, Michael, Chief Engineer, Engine and Boiler Insurance Co., 12 King Street, Manchester.

1856. Longridge, Robert Bewick, Managing Director, Engine and Boiler Insurance Co., 12 King Street, Manchester; and Yew Tree House, Tabley, near Knutsford.

1875. Longridge, Robert Charles, Kilrie, Knutsford.

1901. Longsdon, Henry Crofts, Managing Director, Messrs. W. Summerscales and Sons, Phœnix Foundry, Keighley. [*Phœnix, Keighley.* 92.]

1880. Longworth, Daniel, Messrs. Alcock, Ashdown and Co., Mazagon, Bombay, India.

1899. Lonnon, William, Fleet Engineer, R.N., H.M.S. "Orion," Malta.

1887. Lorrain, James Grieve, Norfolk House, Norfolk Street, London, W.C. [*Lorrain, London.*]

1901. Loud, Henry Sherman, General Manager of Works, British Westinghouse Electric and Manufacturing Co., 5 Norfolk Street, Strand, London, W.C.

1900. Lovell, Denis Ralph, Locomotive Superintendent, Alagoas Railway, Maceio, Brazil.

1888. Low, David Allan, Professor of Engineering, East London Technical College, People's Palace, Mile End Road, London, E.

1885. Low, Robert, Powis Lodge, Vicarage Park, Plumstead.

1891. Lowdon, Thomas, Kingsland Crescent, Barry Docks, B.O., near Cardiff.

1873. Lucas, Arthur, 27 Bruton Street, New Bond Street, London, W.

1889. Lucy, Arthur John, The Old Hill, Astley, Stourport.

1897. Lucy, Ernest Edward, Assistant Locomotive Superintendent, Great Western Railway, Stafford Road Works, Wolverhampton.

1886. Lucy, William Theodore, Locomotive Superintendent, North Western Railway, Bahia Blanca, Argentine Republic: (or Thornleigh, Woodstock Road, Oxford.)

1902. Lukis, Wilfrid Ravenshaw Fellowes, care of J. C. Ward, 52 Queen Victoria Street, London, E.C.

1895. Lumsden, Thomas Templeton Mackie, Managing Director, Messrs. James Milne and Son, Milton House Works, Edinburgh.

1898. Lunt, Charles Thomas, Vanguard Cycle Co., Walsall. [*Vanguard, Walsall.* 6075.]

1877. Lupton, Arnold, Professor of Mining Engineering, Yorkshire College, Leeds; and 6 De Grey Road, Leeds. [*Arnold Lupton, Leeds.* Central 330.]

1897. Lupton, Hugh, Messrs. Hathorn, Davey and Co., Sun Foundry, Dewsbury Road, Leeds. [*Hathorn, Leeds.* Central 524.]

1887. Lupton, Kenneth, 6 Jesson Street, Coventry.

1900. Lupton, William Walter, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds; and Malton.

1889. Macallan, George, Debden House, Newport, Essex.

1892. Macbean, John James, Messrs. Howarth Erskine and Co., Singapore, Straits Settlements.

1888. Macbeth, John Bruce King, 44 Tamarind Lane, Bombay, India: (or care of Norman Macbeth, Heaton, Bolton.)

1883. Macbeth, Norman, Messrs. John and Edward Wood, Victoria Foundry, Bolton.

1884. MacCarthy, Samuel, Messrs. Lloyd and Lloyd, 90 Cannon Street, London, E.C.; and 18 Adelaide Road, Brockley, London, S.E.

1877. MacColl, Hector, Bloomfield, Belfast.

1897. MacDonald, David Johnstone, South St. Roque's Works, Dundee. [*Medalist, Dundee.* 239.]

1901. Macdonald, Fitz Charles, Superintendent Engineer, Irrawaddy Flotilla Co., Dalla Dockyard, Rangoon, British Burma, India.

1889. Macdonald, James Alexander, Broad Oaks Iron Works, Chesterfield.

1899. MacDonald, John, 146 West Regent Street, Glasgow. [*Consulting, Glasgow.* 298.]

1895. MacGarvey, Howard, Lombard Street Works, Dublin.

1890. Mackay, Joseph, Oriental Avenue, Bangkok, Siam: (or care of Messrs. Barr, Thomson and Co., Kilmarnock.) [*Mackay, Bangkok.*]

1885. MacKenzie, John William, Messrs. Wheatley and MacKenzie, 40 Chancery Lane, London, W.C.; and Oakamoor, Dartnell Park, Byfleet, Weybridge.

1883. Mackenzie, Thomas Brown, Messrs. David Colville and Sons, Dalzell Steel and Iron Works, Motherwell; and 342 Duke Street, Glasgow.

1875. Maclagan, Robert, Blantyre, British Central Africa: (or care of Dr. Maclagan, 9 Cadogan Place, Belgrave Square, London, S.W.)

1889. MacLay, Alexander, Professor of Mechanical Engineering, Glasgow and West of Scotland Technical College, 38 Bath Street, Glasgow.

1886. MacLean, Alexander Scott, Messrs. Alexander Scott and Sons, Sugar Refinery, Berry-yards, Greenock; and 31 Bank Street, Greenock.

1877. MacLellan, John A., Messrs. Alley and MacLellan, Sentinel Works, Polmadie Road, Glasgow. [*Alley, Glasgow.* Royal 673.]

1901. Maclure, William George Percy, Locomotive Running Superintendent, Great Central Railway, Gorton, Manchester.

1901. Macmillan, Colin Campbell, 5 Hayburn Crescent, Partickhill, Glasgow.

1884. Macpherson, Alexander Sinclair, Messrs. Fairbairn, Naylor, Macpherson and Co., Wellington Foundry, Leeds.

1901. MacQueen, John, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1892. Mactear, James, F.R.S.E., 28 Victoria Street, Westminster, S.W. [*Celestine, London.* Westminster 66.]

1879. Maginnis, James Porter, 9 Carteret Street, Queen Anne's Gate, Westminster, S.W. [*Offsett, London.*]

1901. MaGuire, Frederick George, Messrs. Davidson and Co., 13 Victoria Street, Westminster, S.W. [*Sirocco, London.*]

1891. Mahon, Major Reginald Henry, R.A., Simla, India.

1873. Mair-Rumley, John George (*Life Member*), 43 Palace Court, London, W. [*Ipsum, London.*]

1884. Mais, Henry Coathupe, 2 Prell's Buildings, Collins and Queen Streets, Melbourne, Victoria.

1898. Maitland, Cree, 190 West George Street, Glasgow. [Corporation 665, National 5719.]

1883. Malan, Ernest de Mérindol, Westinghouse Brake Co., York Road, King's Cross, London, N.

1879. Malcolm, Bowman, Locomotive Engineer, Belfast and Northern Counties Railway, Belfast.

1896. Malloch, William Farquhar, Town Office, Uitenhage, Cape Colony.

1891. Manisty, Edward, Dundalk Iron Works, Dundalk, Ireland; and 24A Bryanston Square, London, W.

1888. Mano, Bunji, Professor of Mechanical Engineering, Imperial University, Tokyo, Japan.

1900. Mansell, William Robert, Wrekin Foundry, Wellington, Shropshire.

1875. Mansergh, James, F.R.S., 5 Victoria Street, Westminster, S.W.

1894. Mansfield, Edwin Albert, 5 Chalsey Road, Brockley, London, S.E.

1891. Manson, James, Locomotive Superintendent, Glasgow and South Western Railway, Kilmarnock.

1897. Mantle, Harry George, Old Level Iron Works, Brierley Hill. [*Hall, Brierley Hill.* 12,005.]

1893. Manton, Arthur Woodroffe, B.Sc., Chipping Sodbury, Gloucestershire.

1862. Mappin, Sir Frederick Thorpe, Bart., M.P., Messrs. Thomas Turton and Sons, Sheaf Works, Sheffield; and Thornbury, Sheffield.

1897. Mapplebeck, Edward, Messrs. John Wilkes, Sons and Mapplebeck, Liverpool Street, Birmingham. [*Wilkes, Birmingham.*]

1878. Marié, Georges, 4 Boulevard des Sablons, Neuilly-sur-Seine, France.

1900. Markham, Reginald Gascoigne Law, R.N., 17 Homefield Road, Chiswick, London, W.

1891. Marks, Edward Charles Robert, 13 Temple Street, Birmingham.

1888. Marks, George Croydon, 18 Southampton Buildings, Chancery Lane, London, W.C. [*Reconstruction, London.*]

1896. Markwick, Alfred Ernest, Superintendent of Machinery, Karachi Municipality, Lawrence Road, Karachi, India.

1884. Marquand, Augustus John, 2 Dock Chambers, Bute Docks, Cardiff. [*Martial, Cardiff.*]

1900. Marriner, William Wright, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1887. Marriott, William, Engineer and Locomotive Superintendent, Midland and Great Northern Joint Railways, Melton Constable, Norfolk.

1896. Marsh, Douglas Earle, Locomotive Department, Great Northern Railway, Doncaster.

1900. Marshall, Alfred William, Messrs. Marshall and Woods, 2 Gray's Inn Road, London, W.C.

1865. Marshall, Francis Carr, Messrs. R. and W. Hawthorn Leslie and Co., St. Peter's Works, Newcastle-on-Tyne; and Akenside Lodge, Newcastle-on-Tyne.

1890. Marshall, Frank Herbert, Messrs. Wilsons, Pease and Co., Tees Iron Works, Middlesbrough.

1885. Marshall, Henry Dickenson, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough. [*Marshalls, Gainsborough.* 10.]

1897. Marshall, Herbert John, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough. [*Marshalls, Gainsborough.* 10.]

1901. Marshall, Hermann Dickenson, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough.

1871. Marshall, James, Messrs. Marshall, Sons and Co., Britannia Iron Works, Gainsborough. [*Marshalls, Gainsborough.* 10.]

1885. Marshall, Jenner Guest, 71 Temple Row, Birmingham; and Westcott Barton Manor, Oxfordshire. [*Work, Birmingham.* 547.]

1896. Marshall, Lewis, Messrs. Lumby, Son and Wood, West Grove Works, Greetland, Halifax. [*Lumby, Halifax.* 5 A.]

1877. Marshall, William Bayley, Richmond Hill, Edgbaston, Birmingham. [*Augustus, Birmingham.*]

1847. Marshall, William Prime, Richmond Hill, Edgbaston, Birmingham. [*Augustus, Birmingham.*]

1899. Marsland, John Samuel, Messrs. Jonas Drake and Son, Ovenden, Halifax.

1859. Marten, Edward Bindon, Pedmore, Stourbridge. [*Marten, Stourbridge.* 8504.]

1881. Martin, Edward Pritchard (*Life Member*), Dowlais Iron Works, Dowlais.

1886. Martin, William Hamilton, Engineering Manager, The Scheldt Royal Shipbuilding and Engineering Works, Flushing, Holland.

1882. Martindale, Warine Ben Hay, 83 Cannon Street, London, E.C.; and Haistwell House, Sunningdale, Ascot.

1884. Massey, George, Post Office Chambers, Pitt Street, Sydney, New South Wales.

1890. Massey, Stephen, Messrs. B. and S. Massey, Openshaw, Manchester.

1893. Massey, William Henry, 25 Queen Anne's Gate, Westminster, S.W.; and Twyford, R.S.O., Berkshire.

1892. Masterton, John Fraser, Locomotive Department, South Eastern and Chatham Railway, Ashford, Kent.

1899. Mastrantonis, Panayotis, Engine and Boiler Works, Piraeus, Greece.

1894. Mather, George Radford, Messrs. G. R. Mather and Son, Albion Foundry, Wellingborough. [*Mather, Wellingborough.*]

1867. Mather, William, M.P., Messrs. Mather and Platt, Salford Iron Works, Manchester. [*Mather, Manchester.*]

1883. Mather, William Penn, Queen Dyeing Co., Providence, Rhode Island, United States.

1900. Mathews, Charles James, Chief Inspector of Boilers, Mines Department, Perth, Western Australia.

1891. Mathewson, Jeremiah Eugene, Tilghman's Sand-Blast Co., Broadheath, near Manchester.

1886. Matthews, Robert, Parrs House, Heaton Mersey, near Manchester.

1895. Matthews, Thomas, Imperial Iron Works, Belvedere Street, Withington Street, Pendleton, Manchester. [*Artesian, Manchester.* 1826.]

1893. Maunsell, Richard Edward Lloyd, Assistant Locomotive Engineer, Great Southern and Western Railway, Inchicore Works, near Dublin.

1873. Maw, William Henry, 35 Bedford Street, Strand, London, W.C. [Gerrard 3663.]

1884. Maxim, Sir Hiram Stevens, Messrs. Vickers, Sons and Maxim, 32 Victoria Street, Westminster, S.W.; and 18 Queen's Gate Place, South Kensington, London, S.W.

1859. Maylor, William (*Life Member*), Hanley Grange, Hanley Castle, Worcestershire.

1874. McClean, Frank, Norfolk House, Norfolk Street, Strand, London, W.C.

1898. McCowen, Victor A. H., City Electrical Engineer, Town Hall, Belfast.

1891. McCredie, Arthur Latimer, Mutual Life of New York Buildings, Martin Place, Sydney, New South Wales. [*Ebony, Sydney.* 63.]

1892. McDonald, John, 99 Cedar Gardens, Putney, London, S.W.

1878. McDonald, John Alexander, Assistant Engineer-in-chief, Public Works Department, Perth, Western Australia: (or care of James E. McDonald, 4 Chapel Street, Cripplegate, London, E.C.)

1865. McDonnell, Alexander, 23 Denbigh Street, London, S.W.; and Rydens, Hersham Road, Walton-on-Thames.

1891. McFarlane, George, Sun Insurance Buildings, 121 West George Street, Glasgow. [*Dunsloy, Glasgow.* Royal 3777.]

1895. McFarlane, James, 33 Spring Gardens, Abbeyhill, Edinburgh.

1895. McGee, Walter, Albion Works, Stoney Brae, Paisley. [137.]

1899. McInnes, David Whitton, Messrs. Hayward Brothers and Eckstein, Union Iron Works, Union Street, Borough, London, S.E. [*Hayward Brothers, London.* Hop 193.]

1889. McIntyre, John Henry A., Lecturer on Mechanical Engineering, Allan Glen's School, Glasgow.

1901. McKechnie, James, Messrs. Vickers, Sons and Maxim, Naval Construction Works, Barrow-in-Furness.

1880. McLachlan, John, Messrs. Bow, McLachlan and Co., Thistle Engine Works, Paisley. [*Bow, Paisley.*]

1888. McLaren, Henry, Messrs. J. and H. McLaren, Midland Engine Works, Leeds.

1882. McLaren, Raynes Lauder, 10 Lammas Park Gardens, Ealing, London, W.

1899. McLaren, Richard Andrew, Babcock and Wilcox Co., Renfrew, R.S.O., Renfrewshire.

1901. McLaren, William Alexander, Midland Engine Works, Leeds.

1888. McLarty, Farquhar Matheson, 26 Brougham Street, Greenock. [*Unique, Greenock.*]

1885. McNeil, John, Messrs. John McNeil and Co., Helen Street, Govan, Glasgow [*Colonial, Glasgow.*]; and Rosario, Dalkeith Avenue, Dumbreck, Glasgow.

1896. McPherson, Stewart, Manager, Barnagore Jute Works, Calcutta, India.

1901. McQueen, John Charles, Chief Engineer, Bridgetown Ice and Cold Storage Co., Bridgetown, Barbados, West Indies.

1891. Meade, Thomas de Courcy, Town Hall, Manchester.

1899. Meaden, Nicholas, R.N., Danbury, Alexandra Road, Reading.

1882. Meats, John Tempest, Mason Machine Works, Taunton, Massachusetts, United States.

1881. Meik, Charles Scott, care of P. Walter Meik, 16 Victoria Street, Westminster, S.W.

1887. Melhuish, Frederick, Assistant Engineer, Southwark and Vauxhall Water Works, Southwark Bridge Road, London, S.E.

1891. Melville, William Charles, Superintendent Engineer, Liverpool Steam Tug Co., 44 Chapel Street, Liverpool.

1888. Melville, William Wilkie, 42 Carden Road, Peckham, London, S.E.

1900. Mendham, Conrad Field, 4 East India Avenue, London, E.C. [*Pyrotic, London.* Avenue 887.]

1878. Menier, Henri, 56 Rue de Châteaudun, Paris.

1897. Meredith, John, 34 Wren Street, Coventry.

1901. Meriton, Thomas Henry Rudolph, Engineer, Charlaw Collieries, Sacriston, Durham.

1894. Merrick, Robert, Warren's Place Iron Works, Cork.

1896. Merrifield, Leonard Lancaster, 19 Abingdon Street, Westminster, S.W.

1875. Merryweather, James Compton, Messrs. Merryweather and Sons, Fire-Engine Works, Greenwich Road, London, S.E.; and 4 Whitehall Court, London, S.W. [*Merryweather, London.*]

1891. Metcalfe, Frederick Spencer, Pumping Station, Sewage Works, Burton-on-Trent.

1881. Meysey-Thompson, Arthur Herbert, Messrs. Hathorn Davey and Co., Sun Foundry, Dewsbury Road, Leeds.

1877. Michele, Vitale Domenico de, 8 Queen Anne's Gate, Westminster, S.W.; and Higham Hall, Rochester.

1898. Micklewright, William, Works Manager, Messrs. John Russell and Co., Alma Tube Works, Walsall; and 14 Mount Street, Walsall.

1884. Middleton, Reginald Empson, 17 Victoria Street, Westminster, S.W. [*Appoint, London.* Westminster 75.]

1891. Middleton, Robert, Sheepscar Foundry, Leeds.

1891. Middleton, Robert Thomas, late Assistant Engineer, Bombay, Baroda and Central India Railway, Bombay, India: 26 Selborne Road, Ilford.

1862. Miers, Francis C., Messrs. Fry Miers and Co., Suffolk House, 5 Laurence Pountney Hill, London, E.C.; and Eden Cottage, South Eden Park, Beckenham. [*Foundation, London.* Bank 920.]

1874. Milburn, John, Hawkshead Foundry, Quay Side, Workington.

1893. Millar, Jackson, Messrs. Millar and Allan, 93 Hope Street, Glasgow.

1889. Miller, Adam, Avondale Lodge, Bull Wood, Dunoon, Argyllshire.

1901. Miller, Fred, 13 St. Joseph's Crescent, Botanic Road, Dublin.

1885. Miller, Harry William, care of Messrs. James Brister and Co., Port Elizabeth, Cape Colony.

1886. Miller, John Smith, Messrs. Smith Brothers and Co., Hyson Green Works, Nottingham.

1887. Miller, Thomas Lodwick, 7 Tower Buildings N., Water Street, Liverpool.

1893. Milligan, William Scott, Messrs. Pollit and Wigzell, Bank Foundry, Sowerby Bridge.

1893. Millington, Frederick Handel, Manager, Patent Pulp Manufacturing Co., Thetford; and Mill House, Thetford.

1885. Millis, Charles Thomas, Principal, Educational Department, Borough Road Polytechnic, London, S.E.

1898. Mills, George Pilkington, Works Manager, Raleigh Cycle Works, Lenton, Nottingham; and The Woodlands, Beeston, Nottingham.

1898. Mills, Richard, Locomotive Department, Midland Railway, Derby; and 9 Wilson Street, Derby.

1897. Mills, William, Atlas Works, Bonner's Field, Sunderland. [*Engineer, Sunderland.* 552.]

1899. Mills, William, 111 Cyprus Street, Stretford, Manchester.

1887. Milne, William, Castle Buildings, West Street, Durban, Natal [*Metallic, Durban*]; and The Oaks, 52 Queen Street, Durban, Natal.

1898. Mitchell, George, Manager, Vacuum Brake Co., 32 Queen Victoria Street, London, E.C. [*Solution, London.* Bank 5534.]

1892. Mitcheson, George Arthur, Longton, Staffordshire. [*Mitcheson, Longton.* 4045.]

1899. Mitton, Edward Moss, Jun., Messrs. Ewen and Mitton, Smithfield Works, Sherlock Street, Birmingham. [*Method, Birmingham.*]

1897. Miyabara, Engineer Rear Admiral Jiro, I.J.N., Naval Department, Tokyo, Japan.

1870. Moberly, Charles Henry, 33 Bennett Park, Blackheath, London, S.E.

1896. Moffatt, Alexander Charles, Messrs. Moffatt and Eastmead, Green Street Engineering Works, Blackfriars, London, S.E.

1898. Molecey, Charles Simpson Twigge, Chief Engineer, Colonial Consignment and Distributing Co., Nelson's Wharf, Commercial Road, Lambeth, London, S.E.

1879. Molesworth, Sir Guilford Lindsay, K.C.I.E., 39 Victoria Street, Westminster, S.W.

1881. Molinos, Léon, 15 Rue Flachat, Paris.

1899. Molloy, Harry James, Assistant Locomotive Superintendent, Burma Railways Co., Insein, Burma.

1897. Monkhouse, Edward Wyndham, Messrs. Burstall and Monkhouse, 14 Old Queen Street, Westminster, S.W. [*Advisedly, London.*]

1884. Monroe, Robert, General Manager, Barry Graving Dock and Engineering Co., Barry Dock, near Cardiff.

1898. Moon, Edgar Rupert, Locomotive Superintendent, Midland Railway of Western Australia, Midland Junction Works, Western Australia: (or care of J. E. Moon, Cloudesleigh, Brixton, near Plymouth.)

1901. Moore, James, Messrs. Ralli Brothers, Karachi, India.

1876. Moore, Joseph, 1099 Adeline Street, Oakland, San Francisco, California: (or care of Ralph Moore, Government Inspector of Mines, 13 Clairmont Gardens, Glasgow.)

1895. Moore, Thomas Lamb, Messrs. James Moore and Sons, Millfield Foundry, Belfast. [*Moore, Millfield, Belfast.* 466.]

1901. Moore, Walter Launcelot, Engineer R.N., H.M. Torpedo Sub-Depôt, Portland.

1895. Moore, William James Perry, 147 Queen Victoria Street, London, E.C.

1897. Morcom, Alfred, Managing Director, Messrs. Belliss and Morcom, Ledsam Street, Birmingham. [*Belliss, Birmingham.*]

1880. Moreland, Richard, Messrs. Richard Moreland and Son, 3 Old Street, St. Luke's, London, E.C. [*Expansion, London.*]

1900. Morgan, Charles Hill, 21 Lincoln Street, Worcester, Massachusetts, United States.

1889. Morgan, David John, 5 Romilly Road, Cardiff.

1887. Morison, Donald Barns, Messrs. T. Richardson and Sons, Hartlepool Engine Works, Hartlepool.

1896. Morley, Herbert William, Messrs. Cole, Marchent and Morley, Prospect Foundry, Bradford. [*Cole, Bradford.* 690.]

1895. Morrin, Richard, Superintendent Engineer, Messrs. Lamport and Holt, 21 Water Street, Liverpool.

1888. Morris, Charles, Messrs. Jessop and Co., Phœnix Iron Works, Calcutta, India.

1874. Morris, Edmund Legh, New River Water Works, Finsbury Park, London, N.

1890. Morris, Francis Sanders, 4 Trafalgar Square, London, W.C.

1898. Morris, John, Royal Technical Institute, Salford, Manchester.

1890. Morris, John Alfred (*Life Member*), Empire Engineering Co., Empire Works, Failsworth, Manchester.

1901. Morris, William, General Manager, Stirchley Iron Co., Stirchley, Dawley, R.S.O., Salop.

1900. Morrison, Gabriel James, 7 The Sanctuary, Westminster, S.W.

1902. Mortimore, William, Messrs. Meldrum Brothers, Atlantic Works, City Road, Manchester.

1892. Morton, David Home, 130 Bath Street, Glasgow. [*Counsel, Glasgow.* 4874.]

1897. Moule, Frederick Oswald, Messrs. Ruston, Proctor and Co., Sheaf Iron Works, Lincoln.

1898. Moulton, Arthur Johnson, Locomotive Department, Midland Railway, Derby.

1858. Mountain, Charles George, 35 Exchange Buildings, Stephenson Place, Birmingham.

1886. Mountain, William Charles, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne [*Esco, Newcastle-on-Tyne.* 1259.]; and South View, Hexham.

1895. Mount-Haes, Andrew, Humboldt Engineering Works, Kalk, near Cologne, Germany.

1901. Mowat, Thomas, Works Manager, Messrs. Harpers, Aberdeen.

1884. Mower, George A. (*Life Member*), Sturtevant Engineering Co., 147 Queen Victoria Street, London, E.C. [*Crosby, London.* Bank 509.]

1893. Moylan, William Morgan, 17 Collingham Place, South Kensington, London, S.W.

1902. Muckley, William Henry, Superintendent of Works, Corporation Tramways, Lambeth Road Works, Liverpool.

1873. Muir, Alfred, Messrs. William Muir and Co., Britannia Works, Sherbourne Street, Strangeways, Manchester.

1876. Muirhead, Richard, 66 Parrock Street, Gravesend.

1890. Mumford, Charles Edward, Messrs. Robert Boby, St. Andrew's Works, Bury St. Edmunds.

1897. Munro, Edward May, Messrs. H. Brecknell, Sons and Munro, Edinburgh Chambers, Baldwin Street, Bristol. [*Brecknell, Bristol.* 467.]

1890. Munro, John, Professor of Mechanical Engineering, Merchant Venturers' Technical College, Unity Street, Bristol.

1890. Munro, Robert Douglas, Chief Engineer, Scottish Boiler Insurance and Engine Inspection Co., 111 Union Street, Glasgow. [*Inspector, Glasgow.* 1271.]

1889. Münster, Bernard Adolph, Engineer, Yokohama, Japan.

1901. Münzel, Max, 11 Deutzer Strasse, Mülheim, Germany.

1890. Murray, Kenneth Sutherland, Brin's Oxygen Works, 69 Horseferry Road, Westminster, S.W.

1894. Murray, Thomas Roberts, Managing Director, Messrs. Spencer and Co., Melksham.

1899. Musgrave, John Richard, Messrs. Musgrave Brothers, Crown Point Foundry, East Street, Leeds. [1226.]

1882. Musgrave, Walter Martin, Messrs. John Musgrave and Sons, Globe Iron Works, Bolton. [*Musgrave, Bolton.*]

1897. Musker, Arthur, Messrs. C. and A. Musker, Liverpool. [*Fulgor, Liverpool,* Anfield 215.]

1897. Musker, Charles, Messrs. C. and A. Musker, Liverpool. [*Fulgor, Liverpool.* Anfield 215.]

1901. Mutter, William, Superintendent Engineer, Messrs. Bulloch Brothers and Co., Poozoondoung Foundry, Rangoon, British Burma, India.

1901. Myers, Henry Sutcliffe, Messrs. Myers Brothers, Theaker Lane, Armley, Leeds.

1888. Myers-Beswick, William Beswick (*Life Member*), 14 Victoria Street, Westminster, S.W.

1901. Nakajima, Yosohachi, Fleet Engineer, I.J.N., 185 Honmuracho, Azabu, Tokyo, Japan.

1899. Nasbey, George William, Cambrian House, Crouch Street, Banbury.

1889. Nash, Thomas, Sheffield Testing Works, Blonk Street, Sheffield; and Guzerat House, Nether Edge, Sheffield.

1889. Nasmith, Joseph, 61 Barton Arcade, Manchester.

1888. Nathan, Adolphus, Messrs. Larini Nathan and Co., Milan; and 15 Via Bigli, Milan, Italy.

1896. Naylor, Sam, Messrs. Lumby, Son and Wood, West Grove Works, Greetland, Halifax. [*Lumby, Halifax.* 5 A.]

1898. Naylor, Tom Hyde, Sir B. Samuelson and Co., Newport Iron Works, Middlesbrough; and 112 Victoria Road, Middlesbrough.

1883. Neate, Percy John, Belsize, 5 Watts Avenue, Rochester.

1889. Needham, Joseph Edward, Patent Office, 25 Southampton Buildings, London, W.C.

1884. Nelson, John, Contractor's Office, 8 Lendal, York. [*Nelson, York.*]

1895. Nesbit, David Mein, Messrs. Ashwell and Nesbit, 12 Great James Street, Bedford Row, London, W.C. [*Plenum, London.* Holborn 587]; and Victoria Foundry, Leicester.

1897. Newman, Reginald William, Messrs. John Aird and Sons, Birmingham Corporation Water Works, Selly Oak, near Birmingham.

1890. Newton, Percy, 115 Queen's Gate, South Kensington, London, S.W.

1898. Newton, Samuel Barton, 25 Change Alley, Sheffield.

1897. Newton, Thomas George, Messrs. W. Summerscales and Sons, Chiswell House, 133 Finsbury Pavement, London, E.C.

1900. Nicholl, John Jeffery, Fern Lodge, 49 Glenarm Road, Clapton, London, N.E.

1884. Nicholls, James Mayne, Locomotive Superintendent, Nitrate Railways, Iquique, Chili.

1884. Nicholson, Henry, 37 Stockton Street, Moss Side, Manchester.

1894. Nicholson, John Rumney, Drywood Hall, Worsley, Manchester.

1899. Nicol, Robert Gordon, Harbour Engineer, Aberdeen.

1899. Nisbet, William Holmes, Mutual Life Buildings, Martin Place, Sydney, New South Wales.

1886. Noakes, Thomas Joseph, Messrs. Thomas Noakes and Sons, 35 and 37 Brick Lane, Whitechapel, London, E.

1884. Noakes, Walter Maplesden, 73 Clarence Street, Wynyard Square, Sydney, New South Wales.

1892. Norris, William, Messrs. Coulthard and Co., Preston.

1868. Norris, William Gregory, Coalbrookdale Iron Works, Coalbrookdale, Shropshire.

1878. Northcott, William Henry, General Engine and Boiler Co., Hatcham Iron Works, Pomeroy Street, New Cross Road, London, S.E.; and 6 Earl's Court Square, London, S.W. [*Oxygen, London.*]

1900. Northey, Percy Wilbraham, 74 Caistor Road, Balham, London, S.W.

1898. Nutt, George Beaumont, Chief Mechanical Engineer, Queensland Government Railways, Brisbane, Queensland.

1885. Oakes, Sir Reginald Louis, Bart., Société Anonyme La Métallurgique, 1 Place de Louvain, Bruxelles, Belgium.

1887. O'Brien, Benjamin Thompson, 34 Catharine Street, Liverpool.

1887. O'Brien, John Owden, Messrs. W. P. Thompson and Co., Ducie Buildings, 6 Bank Street, Manchester.

1890. Ockendon, William, Messrs. John Brown and Co., Atlas Steel and Iron Works, Sheffield.

1868. O'Connor, Charles, 20 Lyra Road, Waterloo, Liverpool.

1888. O'Donnell, John Patrick, Palace Chambers, 9 Bridge Street, Westminster, S.W.; and Tracey Lodge, Bromley Park, Bromley, Kent. [*ODonnell, London.* Westminster 378.]

1889. Ogden, Fred, Patent Office, 25 Southampton Buildings, London, W.C.

1886. Ogle, Percy John, 4 Bishopsgate Street Within, London, E.C. [*Oglio, London.* Avenue 956.]

1893. Oke, Francis Robert, 5 Coppenhall Terrace, Crewe. [*Oke, Crewe.*]

1875. Okes, John Charles Raymond, 23 Brondesbury Park, London, N.W.

1901. Oldham, Fred, Messrs. Alexander Oldham and Sons, Johnson Brook Patent Piston Works, Dukinfield. [*Weldless, Dukinfield.* Hyde 8.]

1900. Oldham, Thomas, Messrs. Alexander Oldham and Sons, Johnson Brook Patent Piston Works, Dukinfield. [*Weldless, Dukinfield.* Hyde 8.]

1899. Oliver, Thomas, North George Street Iron Works, Salford, Manchester.

1882. Orange, James, Messrs. Danby Leigh and Orange, Hong Kong, China: (or care of Mrs. Mary Orange, 2 West End Terrace, Jersey.)

1899. Orcutt, Harry Fred Lee, Messrs. L. Loewe and Co., 30 and 32 Farringdon Road, London, E.C.

1885. Ormerod, Richard Oliver, Wrotham, Union Road, Exeter.

1899. Ormsby, Alfred Stewart Augustus, Patent Office, Staple Inn, Holborn, London, W.C.

1897. Orr, Charles Roger, Fernlea, Carnoustie, R.S.O., Forfarshire.

1899. Osborne, Thomas Peter, Assistant Carriage and Wagon Superintendent, Midland Railway, Derby; and The Poplars, Spondon, Derby.

1899. Ottewell, Albert, Brass Foundry, Cotton Lane, Derby. [*Ottewell, Derby.* 51.]

1867. Oughterson, George Blake, Broadway House, 2 Broadway, Westminster, S.W.; and 40 Blessington Road, Lewisham, London, S.E.

1897. Outram, Francis Davidson, late R.E., Messrs. Robertson and Outram, 28 Victoria Street, Westminster, S.W. [*Eyebolts, London.*]

1897. Owens, Philip Robert, Messrs. Donaldson and Owens, 73 Drury Buildings, Liverpool. [*Torpedo, Liverpool.*]

1900. Pajeken, Julius F., Messrs. L. Loewe and Co., 17–20 Hutten Strasse, Berlin, Germany.

1877. Panton, William Henry, Messrs. Dorman Long and Co., Middlesbrough.

1897. Parish, Charles Edward, 4 Park Road, Harlesden, London, N.W.

1898. Park, Charles Archibald, Carriage Superintendent, London and North Western Railway, Wolverton, R.S.O., Bucks.

1872. Parker, Thomas, Gorton House, Gorton, near Manchester.

1888. Parker, Thomas, Jun., Carriage and Wagon Superintendent, Great Central Railway, Gorton, near Manchester; and Slade Mount, Levenshulme, Manchester.

1891. Parker, Thomas, F.R.S.E., Manor House, Tettenhall, Wolverhampton. [*Parker, Tettenhall.*]

1899. Parker, Thomas Hugh, Managing Director, Electric Street Car Manufacturing Syndicate, Wolverhampton. [*Autocar, Wolverhampton.*]

1895. Parkinson, Hudson Clough, Engineer's Office, Cumberland Basin, Bristol Docks, Bristol.

1900. Parkinson, Joseph, Canal Iron Works, Shipley, Yorks. [*Temples, Shipley.* 4080.]

1884. Parlane, William, Manager, Hong Kong Ice Company, Hong Kong, China: (or Ladyton Cottage, Bonhill, Dumbartonshire.)

1899. Parrack, William Thomas, Rochester Buildings, 138 Leadenhall Street, London, E.C.

1892. Parratt, William Heather, Rose Hall, Canje Creek, Berbice, British Guiana.

1892. Parrott, Thomas Henry, Fairlight, Westfield Road, Edgbaston, Birmingham.

1886. Parry, Alfred, 12 Inner Temple, Dale Street, Liverpool. [*Revolving, Liverpool.*]

1889. Parry, Evan Henry, Inspector of Machinery, P. O. Box 164, Germiston, Transvaal, South Africa.

1900. Parry-Jones, Richard, Salvage Association, 19 Birchin Lane, London, E.C.; and 32 Thornton Avenue, Streatham Hill, London, S.W.

1878. Parsons, The Hon. Richard Clere, Messrs. Bateman Parsons and Bateman, 39 Victoria Street, Westminster, S.W. [*Outfall, London.*]; and 48 Prince's Gardens, London, S.W.

1886. Passmore, Frank Bailey, Suffolk House, 5 Laurence Pountney Hill, London, E.C. [*Knarf, London.*]

1896. Patchell, William Henry, Engineer-in-chief, Charing Cross and Strand Electricity Supply Corporation, 15 Maiden Lane, Covent Garden, London, W.C.

1900. Paterson, James Alverne, Engineer R.N., 3 Elsie Road, East Dulwich, London, S.E.

1880. Paterson, Walter Saunders, care of Messrs. Wallace Brothers, 8 Austin Friars, London, E.C.

1877. Paton, John McClure Caldwell, Messrs. Manlove Alliott and Co., Bloomsgrove Works, Ilkeston Road, Nottingham. [*Manloves, Nottingham.*]

1881. Patterson, Anthony, Dowlais Iron Works, Cardiff; and 9 Glossop Terrace, Cardiff.

1891. Pattison, Joseph, 123 Bute Street, Cardiff.

1891. Paul, Matthew, Jun., Messrs. Matthew Paul and Co., Levenford Works, Dumbarton.

1872. Paxman, James Noah, Messrs. Davey Paxman and Co., Standard Iron Works, Colchester. [*Paxman, Colchester.*]

1880. Peache, James Courthope, Layer Marney Tower, Kelvedon, R.S.O., Essex.

1890. Peacock, Francis, Egyptian Delta Light Railways, Damanhour, Lower Egypt.

1890. Peacock, James Albert Wells, Egyptian Delta Light Railways, Tantah, Egypt.

1869. Peacock, Ralph, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1897. Pearce, Thomas, Managing Director, Messrs. Johns and Waygood, Sturt Street, South Melbourne, Victoria: (or care of Messrs. C. R. Lee and Co., Suffolk House, Laurence Pountney Hill, London, E.C.)

1884. Pearson, Frank Henry, 27 Scale Lane, Hull. [*Pears, Hull.* 01005.]

1885. Pearson, Henry William, Engineer, Bristol Water Works, Small Street, Bristol.

1901. Peart, John, Manager, Engineering Department, Darlington Wagon and Engineering Co., Darlington.

1888. Peel, Charles Edmund, Quay Parade, Swansea.

1899. Peet, James, San Fernando, Trinidad, West Indies.

1898. Peet, William Gadsby, Locomotive Department, Midland Railway, Derby.

1900. Pendred, Vaughan, Crohill, Pendennis Road, Streatham, London, S.W.

1897. Penn, Frederick James, Messrs. Westley Richards and Co., Grange Road, Selly Oak, Birmingham.

1873. Penn, John, M.P., 22 Carlton House Terrace, London, S.W.

1873. Penn, William, Messrs. John Penn and Sons, Marine Engineers, Greenwich, London, S.E.

1895. Penn, William Cooper, 25 Victoria Street, Westminster, S.W. [*Penniform, London.*]

1874. Pepper, Joseph Ellershaw, Clarence Iron Works, Leeds.

1874. Percy, Cornelius McLeod, King Street, Wigan.

1901. Perkins, Charles Clifforde, Messrs. Lester and Perkins, 11 London Street, London, E.C. [*Outwork, London.* Albert Dock 539.]

1898. Perks, John, Messrs. John Knowles and Co., Wooden Box, Burton-on-Trent.

1898. Pettigrew, William Frank, Locomotive Superintendent, Furness Railway, Barrow-in-Furness.

1893. Philip, William Littlejohn, General Manager, The Mirrlees, Watson and Yaryan Co., Scotland Street, Glasgow; and 7 Sherbrooke Avenue, Pollokshields, Glasgow. [*Mirrlees, Glasgow.*]

1885. Phillips, Charles David, Emlyn Engineering Works, Newport, Monmouthshire. [*Machinery, Newport, Mon.*]

1885. Phillips, Lionel (*Life Member*), Messrs. Wernher, Beit and Co., 120 Bishopsgate Street Within, London, E.C.

1879. Phillips, Robert Edward, 70 Chancery Lane, London, W.C. [*Phicycle, London.* Holborn 1200.]

1890. Phillips, Walter, 9 Gracechurch Street, London, E.C. [*Philology, London.*]

1882. Phipps, Christopher Edward, Locomotive Superintendent, Madras Railway, Perambore Works, Madras, India.

1894. Pickering, Jonathan, Baltic Chambers, 50 Wellington Street, Glasgow. [6180.]

1876. Piercy, Henry James Taylor, Messrs. Piercy and Co., Broad Street Engine Works, Birmingham. [*Piercy, Birmingham.* 20.]

1877. Pigot, Thomas Francis, 14 Fitzwilliam Place, Dublin.

1888. Pilkington, Herbert, Sheepbridge Iron Works, Chesterfield.

1900. Pillai, Velu Pillai Devasikhamani, Madras Municipal Commission, Madras, India.

1897. Pilling, Henry, National Boiler Insurance Co., 22 St. Ann's Square, Manchester.

1883. Pillow, Edward, Director of Technical Instruction for Norfolk, Shire Hall, Norwich; and The Grange, 104A Thorpe Road, Norwich.

1892. Pinder, Charles Ralph, Broken Hill Chambers, 31 Queen Street, Melbourne, Victoria.

1892. Pirie, George, 161 Burrage Road, Plumstead.

1888. Pirrie, The Right Hon. William James, LL.D., Messrs. Harland and Wolff, Belfast.

1883. Pitt, Walter, Messrs. Stothert and Pitt, Newark Foundry, Bath. [*Stothert, Bath.*]

1887. Place, John, Messrs. Wheatley Kirk, Price and Co., 46 Watling Street, London, E.C. [*Indices, London.* Bank 5077.]

1899. Platt, Francis James, Messrs. Fielding and Platt, Atlas Iron Works, Gloucester. [*Atlas, Gloucester.* 58.]

1899. Platt, John, Messrs. Mather and Platt, Salford Iron Works, Manchester; and Hyning, Carnforth.

1867. Platt, Samuel Radcliffe (*Life Member*), Messrs. Platt Brothers and Co., Hartford Iron Works, Oldham.

1878. Platts, John Joseph, Resident Engineer, Odessa Water Works, Odessa, Russia.

1869. Player, John (*Life Member*), Clydach Foundry, near Swansea.

1892. Pogson, Alfred Lee, Works Department, H.M. Dockyard, Malta.
1888. Pogson, Joseph, Far Bank, Shelley, Huddersfield.
1894. Poland, William, Messrs. William Poland and Co., King's Bench Walk, Southwark, London, S.E. [*Determine, London.*]
1893. Pollit, Edward Ernest, Messrs. Pollit and Wigzell, Bank Foundry, Sowerby Bridge.
1894. Pollitt, Harry, Fernlea, Altrincham.
1886. Pollock, James, 3 Lloyds Avenue, London, E.C. [*Specific, London.*]
1876. Pooley, Henry, Homestead, Liscard, Cheshire.
1898. Pooley, Henry, Jun., Messrs. Henry Pooley and Son, Albion Foundry, Kidsgrove, Staffordshire.
1901. Poore, George Bentley, Messrs. H. Eckstein and Co., P.O. Box 149, Johannesburg, Transvaal, South Africa.
1899. Pope, Joseph Gordon, Messrs. Bilbie, Hobson and Co., 80 Queen Victoria Street, London, E.C.
1898. Porritt, Louis Alfred, Messrs. William Tatham and Co., Vulcan Works, Rochdale.
1890. Potter, William Henry, Brougham Chambers, Wheeler Gate, Nottingham.
1864. Potts, Benjamin Langford Foster, 55 Chancery Lane, London, W.C.; and 117 Camberwell Grove, London, S.E.
1878. Powel, Henry Coke, Cartref, 3 Winn Road, Burnt Ash Hill, Lee, London, S.E.
1874. Powell, Thomas, Brynteg, Neath.
1891. Powles, Henry Handley Pridham, 90 Oakley Street, Chelsea, London, S.W.
1898. Powrie, William, Messrs. Furnival and Co., 32 St. Bride Street, London, E.C. [*Furnival, London.*]
1867. Pratchitt, John, Messrs. Pratchitt Brothers, Denton Iron Works, Carlisle.
1865. Pratchitt, William, Messrs. Pratchitt Brothers, Denton Iron Works, Carlisle.
1892. Pratt, Middleton, Montreal, Church Road, Hoylake, near Liverpool.
1885. Pratten, William John, Messrs. Harland and Wolff, Belfast.
1890. Preece, Sir William Henry, K.C.B., F.R.S., 8 Queen Anne's Gate, Westminster, S.W.
1902. Prescott, Walter Henry, Engineer and Chief Surveyor, Tottenham Urban District Council, 712 High Road, Tottenham, London, N. [*Prescott, Lower Tottenham.*]
1882. Presser, Ernest Charles Antoine, Barquillo 26, Madrid.
1897. Price, Charles Edwin, Messrs. Price and Corneille, 112 Grosvenor Road, London, S.W.
1877. Price, Henry Sherley, Messrs. Wheatley Kirk, Price and Co., 46 Watling Street, London, E.C. [*Indices, London.* Bank 5077.]
1896. Price, James, Harbour Engineer, 9 Lapp's Quay, Cork.
1890. Price, John, Inspecting Engineer, Workington.

1889. Price, John Bennett, 313 Temple Chambers, Brazennose Street, Manchester; and Wyresdale, Wilbraham Road, Chorlton-cum-Hardy, near Manchester.

1859. Price-Williams, Richard, 6 Queen Anne's Gate, Westminster, S.W. [*Spandrel, London.*]

1886. Price-Williams, Seymour William, 5 Victoria Street, Westminster, S.W.

1896. Pritchard, Hugh, Dinorwic Slate Quarries, Llanberis, near Carnarvon; and 14 Tcrfyn Terrace, Port Dinorwic, R.S.O., Carnarvonshire.

1895. Proctor, Charles Faraday, 1 High Swinburne Place, Newcastle-on-Tyne.

1894. Pryce, Henry James, Locomotive Superintendent, North London Railway, Bow Road Works, London, E.

1895. Pugh, Charles Vernon, Radford House, Coventry.

1895. Pullar, Albert Evans, Pullar's Dye Works, Perth.

1887. Pullen, William Wade Fitzherbert, Professor of Mechanical Engineering, South-Western Polytechnic, Manresa Road, Chelsea, London, S.W.; and Fairley Villa, Oxford Road, Putney, London, S.W.

1898. Pulman, Thomas Charles, care of Messrs. Grindlay and Co., Calcutta, India.

1884. Puplett, Samuel, 47 Victoria Street, Westminster, S.W.

1887. Pyne, Sir Thomas Salter, C.S.I., care of Messrs. George Allan and Co., 13 Austinfriars, London, E.C.

1892. Quentrall, Thomas, H.M. Inspector of Mines, Kimberley, South Africa.

1899. Quin, Robert Cornelius, 3 Hollywood Villas, Melrose Road, West Hill, Wandsworth, London, S.W.

1900. Quirk, William Montague Harley, Messrs. Barre, Johnston and Co., Leake Street, Fremantle, Western Australia.

1870. Radcliffe, William (*Life Member*), Lamberoft, Woodhouse, Sheffield.

1878. Radford, Richard Heber, 15 St. James' Row, Sheffield. [*Radford, Sheffield.*]

1868. Rafarel, Frederic William, Cwmbran Nut and Bolt Works, near Newport, Monmouthshire.

1885. Rainforth, William, Britannia Iron Works, Lincoln. [*Rainforths, Lincoln.*]

1878. Rait, Henry Milnes, Messrs. Rait and Gardiner, 155 Fenchurch Street, London, E.C. [*Repairs, London.*]

1892. Ramsay, William, Superintendent Engineer, Scottish Oriental Steamship Co., Hong Kong, China.

1894. Ramsbottom, John Goodfellow, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester.

1898. Ranger, Robert, Messrs. Ind, Coope and Co., Burton-on-Trent.

1860. Ransome, Allen, Messrs. A. Ransome and Co., Stanley Works, Newark; and Lombard House, Newark.

1886. Ransome, James Edward, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich. [*Ransomes, Ipswich.* 11.]

1888. Rapley, Frederick Harvey, 6 Clement's Lane, Lombard Street, London, E.C.

1889. Ratcliffe, James Thomas, Baumwoll-Manufactur von Izr. K. Poznanski, Lodz, Russian Poland.

1893. Raven, Vincent Litchfield, Locomotive Department, North Eastern Railway, Darlington.

1883. Reader, Reuben, Phœnix Works, Cremorne Street, Nottingham.

1887. Readhead, Robert, Messrs. John Readhead and Sons, West Docks, South Shields [*Readhead, South Shields.* G.P.O. 14. Nat. 2024.]; and South Garth, South Shields.

1882. Reay, Thomas Purvis, Messrs. Kitson and Co., Airedale Foundry, Leeds.

1901. Redman, Joseph, Messrs. C. Redman and Sons, Pioneer Iron Works, Halifax.

1881. Redpath, Francis Robert, Canada Sugar Refinery, Montreal, Canada. [*Redpath, Montreal.*]

1870. Reed, Sir Edward James, K.C.B., F.R.S., Broadway Chambers, Westminster, S.W. [*Carnage, London.*]

1894. Reed, Joseph William, Manager, Engine Works Department, Palmer's Shipbuilding and Iron Works, Jarrow.

1901. Reeves, Arthur Robert, 46 Queen Victoria Street, London, E.C.

1897. Reid, Andrew Thomson (*Life Member*), Messrs. Neilson, Reid and Co., Hyde Park Locomotive Works, Glasgow. [*Neilson, Springburn.* Royal 822.]

1891. Reid, Hugh (*Life Member*), Messrs. Neilson, Reid and Co., Hyde Park Locomotive Works, Glasgow. [*Neilson, Springburn.* Royal 822.]

1897. Reid, John (*Life Member*), Messrs. Neilson, Reid and Co., Hyde Park Locomotive Works, Glasgow. [*Neilson, Springburn.* Royal 822.]

1901. Reid, Robert Shaw, 161 Hope Street, Glasgow. [*Vessel, Glasgow.* 4989.]

1889. Rendell, Alan Wood, Westinghouse Brake Co., 82 York Road, King's Cross, London, N.; and 42 Goldhurst Terrace, South Hampstead, London, N.W.

1890. Rendell, Samuel, Messrs. Beyer Peacock and Co., Gorton Foundry, Manchester; and New Mills, near Stockport.

1859. Rennie, George Banks, 20 Lowndes Street, Lowndes Square, London, S.W.

1876. Restler, James William, Engineer, Southwark and Vauxhall Water Works, Southwark Bridge Road, London, S.E.

1883. Reunert, Theodore (*Life Member*), Box 432, Kimberley, South Africa; Box 92, Johannesburg, Transvaal, South Africa: (or care of Messrs. Findlay, Durham and Brodie, 110 Cannon Street, London, E.C.)

1895. Row, James Henry, Ardfern, Victoria Place, Airdrie.

1879. Reynolds, George Bernard, care of Imperial Ottoman Bank, Bagdad, viâ Bombay.

1898. Reynolds, William Fleck, Messrs. Travers and Co., Britannia Works, Springfield Road, Belfast.

1890. Rice, Thomas Sydney, Aldermary House, 60 Watling Street, London, E.C. [*Ricto, London.*]

1866. Richards, Edward Windsor, Plâs Llecha, Tredunnock, Caerleon, Monmouthshire. [*Windsor Richards, Llangibby.*]

1897. Richards, Henry William Hall, Messrs. W. Richards and Son, Phœnix Iron Works, Leicester. [*Richards, Leicester.* 89.]

1892. Richardson, Harry Alfred, Messrs. Hick Hargreaves and Co., Soho Iron Works, Crook Street, Bolton.

1865. Richardson, John, Well Royd, Rawdon, Leeds.

1873. Richardson, John, Messrs. Robey and Co., Globe Iron Works, Lincoln.

1891. Richardson, John Scott, Craigard, Lenzie, Glasgow.

1887. Richardson, Sir Thomas, Messrs. T. Richardson and Sons, Hartlepool Engine Works, Hartlepool.

1874. Riches, Tom Hurry, Locomotive Superintendent, Taff Vale Railway, Cardiff.

1897. Richmond, William Frederick, Shellness, Stradella Road, Herne Hill, London, S.E.

1873. Rickaby, Alfred Austin, Bloomfield Engine Works, Sunderland [*Rickaby, Sunderland.*]; and 27 Olive Street, Sunderland.

1899. Ride, Samuel, 85 Royal Exchange, Manchester. [*Elevator, Manchester.*]

1899. Rider, John Hall, London County Council Tramways, 303 Camberwell New Road, London, S.E. [Hop 1230.]

1879. Ridley, James Cartmell, Swalwell Steel Works, Newcastle-on-Tyne.

1887. Rickie, John, Argaith, Dumbreck, Glasgow.

1894. Riley, Joseph Hacking, Elton Iron Works, Bury, Lancashire.

1885. Ripley, Philip Edward, Messrs. Ransomes, Sims and Jefferies, Orwell Works, Ipswich.

1884. Ripper, William, Professor of Mechanical Engineering, Technical Department, University College, St. George's Square, Sheffield.

1879. Rixom, Alfred John, 108 Park Road, Loughborough.

1899. Roberts, David, General Manager, Messrs. R. Hornsby and Sons, Spittlegate Iron Works, Grantham. [*Hornsbys, Grantham.*]

1891. Roberts, Hugh Jorwerth, Manor House, Breeze Hill, Bootle, Liverpool.

1887. Roberts, Thomas, Chief Mechanical Engineer, Government Railways, Adelaide, South Australia.

1879. Roberts, Thomas Herbert, Superintendent Motive Power, Norfolk and Southern Rail Road, Norfolk, Va., United States.

1887. Roberts, William, 13 Craven Hill Gardens, Hyde Park, London, W.

1892. Robertson, Leslie Stephen, Messrs. Robertson and Outram, 28 Victoria Street, Westminster, S.W. [*Eyebolts, London.*]

1899. Robins, George Mead, Gas and Water Engineer, Sutton, Surrey.

1897. Robinson, Charles Arthur, Messrs. Robinson, Sadler and Co., 20 Ebrington Street, Plymouth. [506.]

1894. Robinson, Charles John, Messrs. Thomas Robinson and Son, Railway Works, Rochdale. [*Robinson, Rochdale.*]

1900. Robinson, Edward Mark, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1890. Robinson, Frederick Arthur, Messrs. F. A. Robinson and Co., 54 Old Broad Street, London, E.C. [*Farrago, London.*]

1874. Robinson, Henry, Professor of Civil Engineering, King's College, Strand, London, W.C.; and Parliament Mansions, Victoria Street, Westminster, S.W.

1895. Robinson, James, 25 and 27 Leinster Chambers, 4 St. Anne's Square, Manchester.

1898. Robinson, James Armstrong, Stafford Road Works, Great Western Railway, Wolverhampton.

1859. Robinson, John, Messrs. Sharp Stewart and Co., Atlas Works, Glasgow; and Westwood Hall, near Leek.

1886. Robinson, John, Engineer's Office, New Dock Works, Grangemouth.

1878. Robinson, John Frederick, Messrs. Sharp Stewart and Co., Atlas Works, Glasgow. [*Loco, Glasgow.* Royal 3210.]

1891. Robinson, John George, Chief Locomotive Engineer, Great Central Railway, Gorton, Manchester.

1901. Robinson, John James, P.O. Box 377, Durban, Natal.

1899. Robinson, Joseph Drinkwater, R.N.R., Superintendent Engineer, Cork Blackrock and Passage Railway, Passage, Cork.

1894. Robinson, Mark Heaton, Messrs. Willans and Robinson, Victoria Works, Rugby [*c/o Willans, Rugby.*]; and Overslade, Rugby.

1890. Robinson, Sydney Jessop, Messrs. W. Jessop and Sons, Brightside Steel Works, Sheffield.

1878. Robinson, Thomas Neild, Messrs. Thomas Robinson and Son, Railway Works, Rochdale. [*Robinson, Rochdale.*]

1895. Robinson, William, Professor of Mechanical and Electrical Engineering, University College, Nottingham.

1897. Robson, George, 14 Union Court, Old Broad Street, London, E.C.

1899. Robson, William Henry, Manager, Messrs. Chance Brothers and Co., near Birmingham.

1872. Rofe, Henry, 8 Victoria Street, Westminster, S.W.

1885. Rogers, Henry John, Watford Engineering Works, Watford. [*Mechanical, Watford.* 35.]

1898. Rolfe, John Herbert Hieron, 69 Old Street, London, E.C.

1892. Ronald, Henry, Birmingham Small Arms Co., Small Heath, Birmingham.

1898. Roots, James D., 100 Westminster Bridge Road, London, S.E.

1889. Rosenthal, James Hermann, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1902. Ross, John, Superintendent Engineer, Leeds and Liverpool Canal Co., Wigan.

1881. Ross, William, Messrs. Ross and Walpole, North Wall Iron Works, Dublin. [*Iron, Dublin.* 311.]

1899. Ross, William, Jun., 27 Thistle Street, Glasgow.

1896. Rothery, William Brockbank, Norbriggs, Lytham, R.S.O., Lancashire.

1893. Rounthwaite, Henry Morrison, 25 Victoria Street, Westminster, S.W.; and 15 Nicosia Road, Wandsworth Common, London, S.W.

1856. Rouse, Frederick, Locomotive Department, Great Northern Railway, Peterborough.

1878. Routh, William Pole, Oakfield, Southern Hill, Reading.

1898. Row, Oliver Matthews, Dalham Engineering Works, Irlam, Manchester.

1888. Rowan, James, Messrs. David Rowan and Son, Elliot Street, Glasgow.

1891. Rowland, Bartholomew Richmond, Holly Bank, Altrincham.

1898. Royce, Frederick Henry, Messrs. F. H. Royce and Co., Cooke Street, Hulme, Manchester. [*Switch, Manchester.* 772.]

1897. Roylance, Arthur Herbert, Haworth's Buildings, 5 Cross Street, Manchester.

1898. Russell, Bridgman, 42 Berwick Street, Oxford Street, London, W. [*Ventilabro, London.* Gerrard 5349.]

1885. Ryan, John, D.Sc., Woolwich Polytechnic, William Street, Woolwich; and 17 The Common, Woolwich.

1902. Sainty, Christopher, Engineer and Manager, Windsor Corporation Water Works, Tangier Islands, Eton, Windsor. [*Sainty, Eton.* Windsor 0148.]

1874. Sampson, James Lyons, Messrs. David Hart and Co., North London Iron Works, Wenlock Road, City Road, London, N. [*Bascule, London.* King's Cross 733.]

1901. Sams, Joseph Henry, Chatwood's Safe and Lock Co., 76 Newgate Street, London, E.C. [*Chatwoods, London.* 6835.]

1865. Samuelson, The Right Hon. Sir Bernhard, Bart., F.R.S., Britannia Iron Works, Banbury; 56 Prince's Gate, South Kensington, London, S.W.; and Lupton, Brixham, South Devon.

1881. Samuelson, Ernest, Messrs. Samuelson and Co., Britannia Iron Works, Banbury.

1890. Sandberg, Christer Peter, Palace Chambers, Bridge Street, Westminster, S.W.

1899. Sandeman, Edward, Engineer, Derwent Valley Water Board, Bamford, Sheffield.

1881. Sanders, Henry Conrad, Messrs. H. G. Sanders and Son, Victoria Works, Gordon Road, Southall; and 2 Silby Villas, Norwood Road, Southall.

1871. Sanders, Richard David, 5 Kidbrook Grove, Blackheath, London, S.E.

1886. Sandford, Horatio, Messrs. E. A. and H. Sandford, Thames Iron Works, Gravesend.

1881. Sandiford, Charles, Locomotive Superintendent, Uganda Railway, Mombasa.

1891. Sands, Harold, Craythorne, Tenterden, Ashford, Kent.

1894. Sankey, Captain Matthew Henry Phineas Riall, Messrs. Willans and Robinson, Victoria Works, Rugby. [*c/o Willans, Rugby.*]

1899. Sargeant, Edward Frank, Lower Street, Stroud, Gloucestershire. [*Sargeant, Stroud.* 14.]

1900. Sauvage, Edouard, Professeur à l'Ecole des Mines de Paris et au Conservatoire des Arts et Métiers, Ingénieur en Chef Conseil de la Cie. des Chemins de Fer de l'Ouest, 14 Rue Eugène Flachat (17e arrt), Paris.

1874. Sauvée, Albert, Union Works, 60 Park Street, Southwark, London, S.E. [*Sovez, London.* Hop 213.]

1891. Savill, Arthur Slater, Exhaust Steam Injector Company, 4 St. Ann's Square, Manchester.

1880. Saxby, John, Messrs. Saxby and Farmer, Railway Signal Works, Canterbury Road, Kilburn, London, N.W. [*Signalmen, London.* Kilburn 421]; and North Court, Hassocks, R.S.O., Sussex.

1893. Saxon, Alfred, Openshaw Engineering Works and Examiner Buildings, Manchester. [959 and 3904.]

1894. Saxon, George, Openshaw Engineering Works and Examiner Buildings, Manchester. [959 and 3904.]

1894. Saxon, James, Openshaw Engineering Works and Examiner Buildings, Manchester. [959 and 3904.]

1869. Scarlett, James, Messrs. E. Green and Son, 2 Exchange Street, Manchester; and Stamford Road, Bowdon, R.O., near Altrincham.

1890. Schofield, George Andrew, General Manager, Sicilian Railways, Palazzo Brijuccia, Palermo, Sicily: (or care of I. D. Schofield, Oakfield, Alderley Edge, Cheshire.)

1886. Scholes, William Henry, 1255 Rivadavia, Buenos Aires, Argentine Republic: (or care of George Scholes, Orwell House, Upton Manor, Plaistow, London, E.)

1883. Schönheyder, William, 4 Rosebery Road, Brixton, London, S.W. [*Schönheyder, London.*]

1890. Schroller, William, 5 Blair Road, Alexandra Park, Manchester.

1886. Schurr, Albert Ebenezer, Messrs. Fry Miers and Co., Suffolk House, 5 Laurence Pountney Hill, London, E.C.

1891. Scott, Arthur Forbes, 171 Swan Arcade, Bradford.

1882. Scott, Charles Herbert, Messrs. Summers and Scott, High Orchard Iron Works, Gloucester.

1890. Scott, Frederick McClure, 89 Victoria Street, Liverpool.

1875. Scott, Frederick Whitaker, Atlas Steel and Iron Wire Rope Works, Reddish, Stockport. [*Atlas, Reddish.*]

1881. Scott, James, care of Messrs. Reid and Acutt, Smith Street, Durban, Natal: (or 25 Woodhead Street, Dunfermline.)

1886. Scott, James, Consett Iron Works, Consett, R.S.O., County Durham.

1894. Scott, Robert, H. M. Mint, Calcutta, India.

1891. Scott, Robert Julian, Professor of Engineering, New Zealand University, Canterbury College, Christchurch, New Zealand.

1861. Scott, Walter Henry, Great Western of Brazil Railway, Pernambuco, Brazil: (or care of H. Eaton, 75 Tulse Hill, London, S.W.)

1899. Scott, William George, Cheshire Lines Railway, Central Station, Liverpool.

1897. Scotter, Robert Herbert, Ormskirk and Southport Electric Light Railway, 55 Avondale Road, Southport.

1896. Scriven, Charles, Leeds Old Foundry, Leeds.

1882. Seabrook, Alfred William, 40 Mayfair Avenue, Ilford.

1892. Seaman, Charles Joseph, General Manager, Messrs. Heenan and Froude, Newton Heath Iron Works, near Manchester. [*Spherical, Newton Heath.* 966 A.]

1882. Seaton, Albert Edward, Earle's Shipbuilding and Engineering Works, Hull; and Wilton House, Holderness Road, Hull

1891. Selby, Millin, 2 Rue du Lac, Bruxelles, Belgium.

1882. Selfe, Norman, 279 George Street, Sydney, New South Wales.

1884. Sellers, Coleman, E.D., Sc.D., 1301 Stephen Girard Building, Philadelphia, Pennsylvania, United States.

1865. Sellers, William, Pennsylvania Avenue, Philadelphia, Pennsylvania, United States.

1896. Sennett, Alfred Richard, Sennett Laboratory, 304 King's Road, Chelsea, London, S.W.

1883. Shackleford, Arthur Lewis, General Manager, Britannia Railway-Carriage and Wagon Works, Saltley, Birmingham.

1884. Shackleford, William Copley, Manager, Lancaster Wagon Works, Lancaster; and 8 Victoria Street, Westminster, S.W.

1894. Shand, John, Messrs. Morgan and Smith, 211 Clarence Street, Sydney, New South Wales.

1884. Shanks, William, Messrs. Thomas Shanks and Co., Johnstone, near Glasgow. [*Shanks, Johnstone.*]

1902. Sharman, Philip Alan, 113 Cannon Street, London, E.C.; and 65 Tilehouse Street, Hitchin, Herts. [*Graftonian, London.*]

1897. Sharp, John, Bolton Iron and Steel Works, Bolton. [*Hammer, Bolton.* 161.]

1895. Sharp, John Hutchinson, Messrs. Sharp, Stewart and Co., Atlas Works, Glasgow.

1898. Sharp, Sidney, 34 Victoria Street, Westminster, S.W.

1875. Sharp, Thomas Budworth, Consulting Engineer, Muntz Metal Works, Birmingham; and County Chambers A, Martineau Street, Birmingham. [*Budworth, Birmingham.*]

1897. Sharpley, George Ruston, Messrs. Ruston, Proctor and Co., Sheaf Iron Works, Lincoln.

1881. Shaw, Joshua, Messrs. John Shaw and Sons, Wellington Street Works, Salford, Manchester.

1900. Shaw, Percy Charles William, Tramway Construction Branch, Public Works, Sydney, New South Wales.

1899. Shawcross, George Nuttall, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1890. Sheldon, Harry Cecil, Messrs. Boult and Wade, 63 Long Row, Nottingham. [*Boult, Nottingham.* 645.]

1900. Sheldon, William John, Resident Engineer, São Paulo Railway, São Paulo, Brazil.

1892. Shepherd, James, 167 Beeston Road, Leeds.

1861. Shepherd, John, 143 Victoria Road, Headingley, Leeds.

1899. Shepherd, Richard Lillington, care of Chillagoe Railway and Mines Co., 39 Queen Street, Melbourne, Victoria.

1875. Sheppard, Herbert Gurney, Inspector General of Stores, Egyptian State Railways, Gabbari, Alexandria, Egypt: (or 89 Westbourne Terrace, Hyde Park, London, W.)

1876. Shield, Henry, Messrs. Fawcett Preston and Co., Phœnix Foundry, 17 York Street, Liverpool.

1888. Shin, Tsuneta, Director, Ishikawajima Shipbuilding and Engineering Co., Tokyo, Japan.

1892. Shirlaw, Andrew, Wellington Road, Handsworth Wood, Birmingham.

1889. Shone, Isaac, 47 Victoria Street, Westminster, S.W.

1890. Shoosmith, Harry, Ormiston, Erith, S.O., Kent.

1893. Shroff, Adusjee Burjorjee, Chief Engineer, Sassoon Spinning Mills, Bombay, India.

1885. Shuttleworth, Alfred, Messrs. Clayton and Shuttleworth, Stamp End Works, Lincoln. [*Claytons, Lincoln.*]

1885. Shuttleworth, Major Frank, Messrs. Clayton and Shuttleworth, Stamp End Works, Lincoln; and Old Warden Park, Biggleswade. [*Claytons, Lincoln.*]

1899. Sibbering, George Thomas, Engineer, Taff Vale Railway, Cardiff.

1891. Siemens, Alexander (*Life Member*), 12 Queen Anne's Gate, Westminster, S.W.

1898. Sillar, Arthur Molyneux, 2 Queen Anne's Gate, Westminster, S.W.

1897. Sime, William, Messrs. Cook and Co., East London Soap Works, Bow, London, E.

1899. Simmance, John Frederick, Messrs. Simmance and Abady, Westminster Works, Earl Street, Westminster, S.W.

1901. Simmons, George Thomas, Fleet Engineer, R.N., 66 Lewisham High Road, London, S.E.

1877. Simonds, William Turner (*Life Member*), Messrs. J. C. Simonds and Son, Oil Mills, Boston.

1876. Simpson, Arthur Telford, Engineer, Chelsea Water Works, 38 Parliament Street, Westminster, S.W.

1883. Simpson, Charles Liddell, Messrs. Simpson and Co., Engine Works, 101 Grosvenor Road, Pimlico, London, S.W. [*Aquosity, London.*]

1885. Simpson, James Thomas, Superintending Engineer, Public Works Department, Toungoo, Burma.

1882. Simpson, John Harwood, 1 Hargwyne Street, Brixton, London, S.W.

1891. Sinclair, Russell, Messrs. J. Wildridge and Sinclair, 97 Pitt Street, Sydney, New South Wales.

1881. Sisson, William, Quay Street Iron Works, Gloucester. [*Sisson, Gloucester.*]

1872. Slater, Alfred, Gloucester Wagon Works, Gloucester.

1892. Slight, George Henry, Director of Lighthouses, Valparaiso, Chile: (or care of George H. Slight, Sen., Kendall, Meadfoot Road, Torquay.)

1885. Slight, William Hooper, Messrs. W. Henderson and Co., Soerabaya, Java: (or care of G. H. Slight, 64 Cromwell Road, Fitzhugh, Southampton.)

1891. Sloan, Robert Alexander, Messrs. Sloan and Lloyd Barnes, 34 Castle Street, Liverpool. [*Technical, Liverpool.* 6080.]

1886. Small, James Miln, Messrs. Urquhart and Small, 17 Victoria Street, Westminster, S.W.

1897. Smallman, Herbert Spencer, Globe Tube Works, Wednesbury. [*Tubes, Wednesbury.* 6504.]

1900. Smart, Alexander, Erith, S.O., Kent.

1898. Smart, Leslie Sanderson, Locomotive Department, London Brighton and South Coast Railway, Brighton.

1901. Smart, Robert Howie, Messrs. Blake, Barclay and Co., Victoria Works, Greenock. [*Filter, Greenock.* 130.]

1899 Smeddle, John Henry, Assistant Locomotive Superintendent, North Eastern Railway, Darlington.

1889. Smelt, John Dann, Argentine Great Western Railway, River Plate House, Finsbury Circus, London, E.C. [*Azodnem, London.*]

1899. Smethurst, William, 134 Deansgate, Manchester.

1900. Smith, Alexander Dawson, Mirrlees, Watson and Yaryan Co., 45 Scotland Street, Glasgow; and 487 Shields Road, Glasgow.

1901. Smith, Daniel, Messrs. Daniel Smith and Co., Castle Iron Works, Raglan Street, Wolverhampton. [*Presses, Wolverhampton.* 210.]

1860. Smith, Henry, Messrs. Hill and Smith, Brierley Hill Iron Works, Brierley Hill; and Summerhill, Kingswinford, near Dudley. [*Fencing, Brierley Hill.*]

1881. Smith, Henry, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1898. Smith, Isaac, Messrs. Sydney Smith and Sons, Basford Brass Works, Nottingham; and Hickling Lodge, near Keyworth, Notts. [*Smiths, Nottingham.* 1537.]

1893. Smith, John, Salford Works, Richard Street, Birmingham. [*Profiler, Birmingham.* 2540.]

1898. Smith, John, Burton Brewery Co., Burton-on-Trent.

1883. Smith, John Bagnold, Westfield House, Sutton-in-Ashfield, Nottingham.

1891. Smith, John Reney, Messrs. H. and C. Grayson, 179 Regent Road, Liverpool.

1898. Smith, John William, Locomotive Department, Midland Railway, Derby.

1890. Smith, John Windle, Messrs. Thomas Drysdale and Co., 438 Calle Moreno, Buenos Aires, Argentine Republic: (or care of Edward Smith, The "Lock," Gainsborough.)

1870. Smith, Michael Holroyd, Royal Insurance Buildings, Crossley Street, Halifax; and 47 Victoria Street, Westminster, S.W. [*Outfall, London.*]

1886. Smith, Reginald Arthur, Messrs. Dorman and Smith, Ordsal Station Electrical Works, Salford, Manchester.

1881. Smith, Professor Robert Henry, 12 Parliament Mansions, Victoria Street, Westminster, S.W.

1897. Smith, Robert Walker, Works Manager, New Enfield Cycle Co., Hunt End Works, Redditch; and Stoneleigh, Redditch.

1896. Smith, Roger Thomas, 17 Victoria Street, Westminster, S.W.

1885. Smith, Thomas, Steam Crane Works, Old Foundry, Rodley, near Leeds. [*Tomsmith, Leeds.*]

1898. Smith, Tom Graves, Messrs. Humpidge, Holborow and Co., Dudbridge Iron Works, Stroud, Gloucestershire. [*Humpidge, Cainscross.* 7.]

1898. Smith, Walter Mackersie, Locomotive Department, North Eastern Railway, Gateshead.

1881. Smith, Wasteneys, 59 Sandhill, Newcastle-on-Tyne. [*Wasteneys Smith, Newcastle-on-Tyne.* 2018.]

1890. Smith, William, London and Manchester Plate Glass Co., Sutton, St. Helens, Lancashire.

1900. Smith, William Hill, Messrs. Smith Brothers and Eastwood, Valley Iron Works, Bradford; and Clover Lea, Halifax.

1887. Smith, William Mark, District Locomotive Carriage and Wagon Superintendent, Great Southern and Western Railway, Cork.

1884. Smyth, William Stopford, Glen Bank, Woodland Park, Newport, Monmouthshire.

1891. Snell, John Francis Cleverton, Borough Electrical Engineer, Central Offices, Town Hall, Sunderland.

1883. Snelus, George James, F.R.S., Ennerdale Hall, Frizington, near Carnforth.

1885. Snowdon, John Armstrong, Stanners Closes Steel Works, Wolsingham, near Darlington.

1897. Snoxell, George Edgar, Birtley Iron Works, Birtley, Durham.

1895. Somers, Walter, Haywood Forge, Halesowen, near Birmingham.

1887. Sorabji, Shapurji, Messrs. Shapurjee and Ratanshaw, Devonshire Chambers, Bishopsgate Street, London, E.C. [*Ratanshaw, London.*]

1889. Souter-Robertson, David, Officiating Superintendent, Government Canal Foundry and Workshops, Roorkee, North Western Provinces, India.

1885. Southwell, Frederick Charles, Messrs. F. C. Southwell and Co., 75 Southwark Street, London, S.E. [*Prevailing, London.*]

1877. Soyres, Francis Johnstone de, 4 Leicester Place, Clifton, Bristol.

1900. Sparkes, Samuel Hurford, General Manager, Messrs. Fox Brothers and Co., Wellington, Somerset.

1893. Spence, Arthur William, Manager, Cork Street Foundry and Engineering Works, Dublin.

1898. Spence, Wilfrid L., Managing Director, British Electric Plant Co., Alloa.

1887. Spence, William, Cork Street Foundry and Engineering Works, Dublin.

1887. Spencer, Alexander, Messrs. George Spencer, Moulton and Co., 77 Cannon Street, London, E.C. [*George Spencer, London.*]

1878. Spencer, Alfred G., Messrs. George Spencer, Moulton and Co., 77 Cannon Street, London, E.C. [*George Spencer, London.*]

1896. Spencer, Charles James, Messrs. Hendry and Pattisson, 4 Marlborough Mews, Hills Place, Oxford Street, London, W.

1892. Spencer, Henry Bath, 144 St. Vincent Street, Glasgow. [*Concentration, Glasgow.* 5441.]

1877. Spencer, John, Globe Tube Works, Wednesbury; and 14 Great St. Thomas Apostle, London, E.C. [*Tubes, Wednesbury. Tubes, London.* 6504.]

1897. Spencer, John, Atlas Works, Keighley. [*Spencer, Engineer, Keighley.* 118.]

1867. Spencer, John W., Newburn Steel Works, Newcastle-on-Tyne. [*Newburn, Newcastle-on-Tyne.*]

1885. Spencer, Mountford, Messrs. Luke and Spencer, Broadheath, near Manchester; and The Hill, Teignmouth.

1897. Spencer, Thomas Harris, Globe Tube Works, Wednesbury. [*Tubes, Wednesbury.* 6504.]

1891. Spencer, William, Messrs. James Spencer and Co., Chamber Iron Works, Hollinwood, near Manchester.

1885. Spooner, George Percival, 61 Hartland Road, West Kilburn, London, N.W.

1883. Spooner, Henry John, Director and Professor of Engineering at the Polytechnic School of Engineering, 309 Regent Street, London, W.

1896. Spring, Francis Joseph Edward, C.I.E., Government Consulting Engineer for Railways, Madras, India.

1901. Sprott, Robert Edmund, Bridgewater Trustees, Walkden, Manchester.

1869. Stabler, James, 13 Effra Road, Brixton, London, S.W.

1897. Stagg, William, Avon Street Gas Works, Bristol.

1899. Stamer, Arthur Cowie, District Locomotive Superintendent, North Eastern Railway, York.

1877. Stanger, George Hurst, Queen's Chambers, North Street, Wolverhampton.

1875. Stanger, William Harry, Chemical Laboratory and Testing Works, Broadway, Westminster, S.W. [Westminster 117.]

1888. Stanley, Harry Frank, Messrs. H. Pontifex and Sons, Farringdon Works, Shoe Lane, London, E.C.; and 11 Albert Mansions, Crouch Hill, London, N.

1888. Stannah, Joseph, 20 Southwark Bridge Road, London, S.E.

1884. Stanton, Frederic Barry, Mansion House Chambers, 11 Queen Victoria Street, London, E.C.

1901. Stead, William, Managing Director, Messrs. Browett, Lindley and Co., Sandon Works, Patricroft, Manchester.

1897. Steele, James, Works Manager, Messrs. R. Y. Pickering and Co., Wishaw, near Glasgow.

1901. Steele, Robert, 6 Gracechurch Street, London, E.C. [*Forenson, London.* Avenue 972.]

1901. Steele, William Russell, Messrs. Burn and Co., Howrah Iron Works, Howrah, Bengal, India.

1901. Stenning, Henry Alexander, Annandale, Strafford Road, Twickenham.

1868. Stephenson, George Robert, Ben Braich, Tilehurst Road, Reading.

1879. Stephenson, Joseph Gurdon Leycester, Chihuahua, Mexico.

1888. Stephenson-Peach, William John, Askew Hill, Repton, Burton-on-Trent.

1876. Sterne, Louis, Messrs. L. Sterne and Co., Crown Iron Works, Glasgow [*Crown, Glasgow.*]; and Donington House, Norfolk Street, London, W.C. [*Elsterne, London.* Gerrard 1989.]

1898. Stevens, Arthur James, Managing Director, Uskside Iron Works, Newport, Monmouthshire. [*Uskside, Newport, Mon.* P.O. 29; Nat. 53.] (Former Member 1875–1886.)

1891. Stevens, James, 9 and 11 Fenchurch Avenue, London, E.C.

1894. Stevens, Thomas, 110 Northgate Street, Bury St. Edmunds.

1887. Stevenson, David Alan, F.R.S.E., 84 George Street, Edinburgh.

1898. Stevenson, Hew, Messrs. Crompton and Co., Salisbury House, London Wall, London, E.C.

1887. Stewart, Andrew, 50 Wellington Street, Glasgow.

1878. Stewart, Duncan, Messrs. Duncan Stewart and Co., London Road Iron Works, Glasgow. [*Stewart, Glasgow.* Royal 531.]

1892. Still, William Henry, Hudjuff, Aden, Arabia.

1880. Stirling, James, Belmore, Ashford, Kent.

1885. Stirling, Matthew, Locomotive Superintendent, Hull Barnsley and West Riding Junction Railway and Dock Co., Hull.

1896. Stirling, Patrick, Great Northern Railway, Doncaster; and St. James' Cottage, Doncaster.

1888. Stirling, Robert, care of R. S. Brundell, Redholm, Doncaster.

1898. Stirling, Robert, Baku, Russia.

1898. Stobie, George, Government Harbour Department, Durban, Natal.

1901. Stocker, Percy, Engineer R.N., Elmsleigh, St. Austell.

1893. Stockton, Joseph Sadler, Beech House, Kenilworth.

1892. Stone, Edward Herbert, Chief Engineer, East Indian Railway, Calcutta, India.

1887. Stone, Frank Holmes, G. P. O., Freetown, Sierra Leone.

1894. Stone, Sidney, Locomotive Department, Great Central Railway, Gorton, Manchester.

1901. Stormont, Peter Campbell, General Manager, Messrs. Howarth, Erskine and Co., Singapore, Straits Settlements; and 89 Institution Hill, River Valley Road, Singapore, Straits Settlements.

1877. Stothert, George Kelson, Steam Ship Works, Bristol.

1892. Strachan, John, Craigisla, Penylan, Cardiff.

1888. Straker, Sidney, 9 Bush Lane, Cannon Street, London, E.C. [*Rhomboidal, London.* Bank 5200.]

1897. Strickland, Frederic, 215 Upper Richmond Road, Putney, London, S.W.

1895. Stromeyer, Johann Philipp Edmond Charles, Manchester Steam User's Association, 9 Mount Street, Manchester.

1899. Stubbs, Joseph Hetherington, Mill Street Works, Ancoats, Manchester. [*Winding, Manchester.*]

1890. Stutzer, Waldemar, Koltchugin Brass and Copper Mill Co., Alexandrov Station, Jaroslav Railroad, Russia.

1882. Sugden, Thomas, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1890. Sulzer, Jacob, Messrs. Sulzer Brothers, Winterthur, Switzerland.

1861. Sumner, William, Butt Hill, Prestwich, Manchester.

1899. Surtees, Henry Wardale, Parker Foundry Co., Derby.

1875. Sutcliffe, Frederic John Ramsbottom, 52 Ash Grove, Bradford.

1883. Sutton, Joseph Walker, 36 Bedford Street, Strand, London, W.C.

1880. Sutton, Thomas, Kirkstall Forge Co., 1 Victoria Street, Westminster, S.W.

1882. Swaine, John, Publow Vicarage, Pensford, Bristol.

1884. Swan, Joseph Wilson, F.R.S., 57 Holborn Viaduct, London, E.C.; and 58 Holland Park, London, W.

1898. Swasey, Ambrose, Messrs. Warner and Swasey, Cleveland, Ohio, United States.

1897. Swinburne, George, 99 Queen Street, Melbourne, Victoria.

1898. Swinburne, James, 82 Victoria Street, Westminster, S.W. [Westminster 292.]

1882. Swinburne, Mark William, Wallsend Brass Works, Newcastle-on-Tyne; and 117 Park Road, Newcastle-on-Tyne. [*Bronze, Wallsend.*]

1901. Swinburne, William, Manager, Melbourne Hydraulic Power Co., 99 Queen Street, Melbourne, Victoria.

1864. Swindell, James Swindell Evers, Homer Hill, Cradley, Staffordshire.

1898. Swingler, Alfred, Messrs. Eastwood, Swingler and Co., Victoria and Railway Iron Works, Derby. [*Swingler, Derby.* 150.]

1900. Taggart, William Scott, 53 Prinz Georg Strasse, Düsseldorf, Germany.

1878. Taite, John Charles, New Taite Howard Pneumatic Tool Co., 63 Queen Victoria Street, London, E.C. [Bank 5642.]; and The Corner House, Shortlands, S.O., Kent.

1901. Talbot, Benjamin, Westminster Chambers, East Parade, Leeds. [*Talco, Leeds.* 975.]

1875. Tangye, George, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham. [*Tangyes, Birmingham.*]

1889. Tangye, Harold Lincoln, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham.

1861. Tangye, James, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham; and Aviary Cottage, Illogan, near Redruth.

1885. Tangye, John Henry, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham.

1895. Tannett, John Croysdale, Messrs. Fullerton, Hodgart and Barclay, Vulcan Works, Paisley.

1891. Tannett-Walker, Arthur Tannett, Messrs. Tannett Walker and Co., Goodman Street Works, Hunslet, Leeds.

1899. Taplin, John Minter, Vulcan Boiler and General Insurance Co., 68 Elgin Road, Seven Kings, Ilford.

1879. Tartt, William, Maythorn, South Godstone, Surrey.

1876. Taunton, Richard Hobbs, 10 Coleshill Street, Birmingham.

1874. Taylor, Arthur, 18 Auriol Road, West Kensington, London, W.

1900. Taylor, Charles Gerald, Engineer R.N., H.M. Dockyard, Halifax, Nova Scotia.

1900. Taylor, Edward Brough, 27 Great George Street, Westminster, S.W.

1873. Taylor, John, Elmhurst, Lucknow Drive, Nottingham.

1884. Taylor, Joseph, Holme Lea, Tatton Road North, Heaton Moor, near Stockport.

1875. Taylor, Joseph Samuel, Messrs. Taylor and Challen, Derwent Foundry, 60 and 62 Constitution Hill, Birmingham. [*Derwent, Birmingham.*]

1874. Taylor, Percyvale, 17 Ashburn Place, South Kensington, London, S.W.

1893. Taylor, Robert, Jun., Works Manager, Messrs. Asa Lees and Co., Soho Iron Works, Oldham.

1882. Taylor, Robert Henry, Admiralty Harbour Works, Dover.

1894. Taylor, William, Messrs. Taylor, Taylor and Hobson, Stoughton Street Works, Leicester. [*Lenses, Leicester.* 134.]

1901. Taylor, William, Messrs. Taylor Brothers, Midland Engineering and Foundry Works, Sandiacre, near Nottingham. [*Taylor Bros., Sandiacre.* 1635.]

1896. Taylor, William Isaac, Messrs. Clarke, Chapman and Co., 50 Fenchurch Street, London, E.C.

1895. Tebbutt, Sidney, Bagenholt, Northlands Road, Southampton.

1864. Tennant, Sir Charles, Bart. (*Life Member*), The Glen, Innerleithen, near Edinburgh.

1882. Terry, Stephen Harding, 17 Victoria Street, Westminster, S.W.

1891. Tetlow, Ernest, Messrs. Tetlow Brothers, Bottoms Iron Works, Hollinwood, near Manchester.

1899. Thackeray, Thomas, Messrs. Vickers, Sons and Maxim, Barrow-in-Furness.

1877. Thom, William, Messrs. Yates and Thom, Canal Foundry, Blackburn.

1896. Thomas, James Martin, Superintending Engineer, Boston and Dominion Lines of Steamers; 15 Pembroke Road, Bootle, Liverpool.

1867. Thomas, Joseph Lee, 2 Hanover Terrace, Ladbroke Square, Notting Hill, London, W.

1897. Thomas, Lewis Richard, Great Western Railway Works, Swindon; and Ross House, Edinburgh Place, Weston-super-Mare.

1888. Thomas, Philip Alexander, 46 Queen Victoria Street, London, E.C.; and 71 Aberdare Gardens, West Hampstead, London, N.W.

1900. Thompson, George William, Chief Engineer, Messrs. W. Whiteley, 147 Queen's Road, Bayswater, London, W.

1875. Thompson, John, Highfield Boiler Works, Ettingshall, Wolverhampton. [*Boiler, Wolverhampton.*]

1900. Thompson, John Robert, 10 West Twenty-third Street, New York, United States; and Talbot House, Knowle, Bristol.

1883. Thompson, Richard Charles, Messrs. Robert Thompson and Sons, Bridge Dockyard, Sunderland.

1887. Thompson, William Phillips, 6 Lord Street, Liverpool.

1900. Thomsett, Frank Dathan, Chief Engineer R.N., H.M.S. "Racoon," care of Postmaster General, London, E.C.

1901. Thomson, Charles, Engineer R.N., River Ambulance Steamers, Metropolitan Asylums Board, Victoria Embankment, London, E.C.; and Brendon, Half Moon Lane, North Dulwich, London, S.E.

1900. Thomson, George, Natal Government Harbour Works, Port Natal, South Africa.

1875. Thomson, James McIntyre, Montgomerie, Tarbolton, Ayrshire.

1868. Thomson, John, 3 Crown Terrace, Dowanhill, Glasgow.

1899. Thorburn, William, Luchana Mining Co., Apartado 45, Bilbao, Spain. [*Shoolbred, Bilbao.*]

1893. Thornbery, William Henry, 36 Paradise Street, Birmingham. [*Thornbery, Birmingham.*]

1898. Thorneley, William, Works Manager, Great Central Railway, Gorton, Manchester.

1868. Thornewill, Robert, Messrs. Thornewill and Warham, Burton Iron Works, Burton-on-Trent.

1885. Thornley, George, Messrs. Buxton and Thornley, Waterloo Engineering Works, Burton-on-Trent.

1877. Thornton, Frederic William, Hull Hydraulic Power Co., Machell Street, Hull.

1882. Thornton, Hawthorn Robert, Sandilli House, Uitenhage, Cape Colony.

1876. Thornycroft, John Isaac, LL.D., F.R.S., Messrs. John I. Thornycroft and Co., Steam Yacht and Launch Builders, Church Wharf, Chiswick, London, W. [*Thornycroft, London.* 7306.]

1882. Thow, William, Chief Mechanical Engineer, New South Wales Government Railways, Eveleigh, Sydney, New South Wales: (or care of Joseph Meilbek, 13 Victoria Street, Westminster, S.W.)

1900. Thumwood, Lewis Edward, Chief Engineer R.N., H.M.S. "Pembroke," Chatham.

1898. Ticehurst, Hugh Gorham, Thames Ammunition Works, Erith, S.O., Kent; and Telham, Freta Road, Bexley Heath, Kent.

1885. Timmermans, François, Managing Director, Société anonyme des Ateliers de la Meuse, Liége, Belgium. [*Société Meuse, Liége.*]

1884. Timmis, Illius Augustus, 2 Great George Street, Westminster, S.W. [*Timmis, London.*]

1890. Titley, Arthur, Beechwood, Hartopp Road, Four Oaks, Sutton Coldfield, near Birmingham.

1875. Tomkins, William Steele, Messrs. Sharp Stewart and Co., Atlas Works, Glasgow; and 28 Victoria Street, Westminster, S.W.

1888. Topple, Charles James, 6 Blendon Terrace, Plumstead Common.

1894. Touch, John Edward, Selborne House, 11 Ironmonger Lane, London, E.C.

1883. Tower, Beauchamp, Hillstead, Brentwood.

1889. Towler, Alfred, Messrs. Hathorn Davey and Co., Sun Foundry, Leeds.

1893. Townsend, Major C. Collingwood, R.A., Superintendent, Gun-Carriage Factory, Fatehgarh, North Western Provinces, India.

1890. Trail, John, Marine Superintendent, Knott's Prince Line of Steamers, Newcastle-on-Tyne.

1901. Travers, Ernest James, Messrs. Travers and Co., Britannia Works, Belfast.

1888. Travis, Henry, Superintending Engineer and Constructor of Shipping to the War Department, Royal Arsenal, Woolwich.

1889. Treharne, Gwilym Alexander, Pontypridd; and Aberdare.

1889. Trenery, William Penrose, Case Postale 106, Liège, Belgium.

1883. Trentham, William Henry, 39 Victoria Street, Westminster, S.W.

1876. Trevithick, Richard Francis, Locomotive and Carriage Superintendent, Japanese Government Railways, Kobe, Japan: (or care of Mrs. Mary Trevithick, The Cliff, Penzance.)

1887. Trier, Frank, Messrs. Brunton and Trier, 1 Great George Street, Westminster, S.W.

1896. Trotter, Alexander Pelham, Board of Trade, 8 Richmond Terrace, Whitehall, London, S.W.

1885. Trueman, Thomas Brynalyn, care of Mrs. Trueman, The Terrace, St. Ives, Cornwall.

1901. Tullis, David Kiel, Messrs. D. and J. Tullis, Kilbowie Iron Works, near Glasgow. [*Tullis, Clydebank.*]

1887. Turnbull, Alexander, Messrs. Alexander Turnbull and Co., St. Mungo Works, Bishopbriggs, Glasgow. [*Valve, Glasgow.* Royal 4394.]

1885. Turnbull, John, Jun., 190 West George Street, Glasgow. [*Turbine, Glasgow.* Douglas 59.]

1894. Turner, Albert, Whitehouse Machine Works, Denton, near Manchester. [*Machines, Denton.* 205.]

1897. Turner, Alfred, Works Manager, Messrs. George Jones, Lionel Street, Birmingham.

1866. Turner, Frederick, Messrs. E. R. and F. Turner, St. Peter's Iron Works, Ipswich. [*Gippeswyk, Ipswich.*]

1882. Turner, Thomas, Messrs. Andrew Barclay, Sons and Co., Caledonia Works, Kilmarnock. [*Barclayson, Kilmarnock.* 10.]

1886. Turner, Tom Newsum, Vulcan Iron Works, Langley Mill, near Nottingham.

1876. Turney, Sir John, Messrs. Turney Brothers, Trent Bridge Leather Works, Nottingham. [*Turney, Nottingham.*]

1899. Turton, William Henry, Manager's Quarters, Royal Arsenal, Woolwich.

1882. Tweedy, John, Messrs. Wigham Richardson and Co., Newcastle-on-Tyne.

1897. Twelvetrees, Walter Noble, 47 Victoria Street, Westminster, S.W.; and 91 Louisville Road, Tooting, London, S.W.

1856. Tyler, Sir Henry Whatley, K.C.B., Linden House, Highgate Road, London, N.W.

1896. Umney, Herbert Williams, 19 Sylvan Road, Upper Norwood, London, S.E.

1899. Unsworth, Herbert George, Brunswick House, Western Bank, Derby.

1900. Upward, Alfred Réné, 1A Edinburgh Mansions, Howick Place, Victoria Street, Westminster, S.W.

1898. Urie, Robert Wallace, London and South Western Railway, Nine Elms, London, S.W.

1899. Urie, William Montgomerie, Works Manager, Caledonian Railway, St. Rollox, Glasgow.

1898. Urwick, Arthur John, The Nevile Engineering Co., Worcester.

1880. Valon, William Andrew McIntosh, 140 and 141 Temple Chambers, Temple Avenue, London, E.C.; and Ramsgate. [*Valon, Ramsgate.*]

1895. Van Raalte, Joseph, General Manager, Royal Shipbuilding and Engineering Works, Flushing, Holland. [*Schelde, Flushing.*]

1901. Vaughan, Cedric, Managing Director, Hodbarrow Mining Co., Millom, R.S.O., Cumberland; and Leyfield, Millom, R.S.O., Cumberland.

1901. Vaughan, John Alfred, Chief Inspector of Machinery, P.O. Box 1104, Johannesburg, Transvaal, South Africa.

1885. Vaughan, William Henry, Royal Iron Works, West Gorton, Manchester. [*Vaunting, Manchester.* 5106.]

1897. Vaux, Walter, General Manager, New St. Helens and District Electric Tramways, St. Helens, Lancashire.

1862. Vavasseur, Josiah, 28 Gravel Lane, Southwark, London, S.E.; and Rothbury, Blackheath Park, London, S.E. [*Exemplar, London.*]

1900. Veen, Vernon Alfred Alexander ter, Engineer R.N., H.M.S. "Pidgeon," care of Postmaster General, London, E.C.

1899. Vernon, Charles Edward, London and India Docks Joint Committee, 109 Leadenhall Street, London, E.C.

1889. Vesian, John Stuart Ellis de, 20 New Bridge Street, Blackfriars, London, E.C. [*Biceps, London.*]

1865. Vickers, Albert, Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1861. Vickers, Thomas Edward, C.B., Messrs. Vickers, Sons and Maxim, River Don Works, Sheffield.

1856. Waddington, John, 35 King William Street, London Bridge, London, E.C. [Bank 518.]

1899. Waddington, Richard, 35 King William Street, London Bridge, London, E.C. [Bank 518.]

1898. Waddle, Hugh William, Managing Director, Waddle Patent Fan and Engineering Co., Llanmore Works, Llanelly.

1901. Wadia, Nusserwanjee Nowrosjee, Messrs. Nowrosjee Wadia and Sons, Bombay, India; and Bella Vista, Cumballa Hill, Bombay, India.

1898. Wainwright, John William, General Manager, British Electric Car Co., Trafford Park, Manchester.

1888. Waister, William Henry, Locomotive and Carriage Running Department, Great Western Railway, Swindon.

1881. Wake, Henry Hay, Engineer to the River Wear Commission Sunderland.

1882. Wakefield, William, 123 Rathgar Road, Dublin.

1892. Waldron, Patrick Lawrence, R.N.R., Rockville Cottage, Castletow Berehaven, Co. Cork, Ireland; and 24 St. Joseph's Road, Aughrim Street, Dublin.

1898. Walke, Charles Nicholas Eves, Inspector of Steam Boilers, Town Custom House, Bombay, India.

1890. Walkeden, George Henry, London and Hamburg Gold Recovery Co., P. O. Box 64, Kalgoorlie, Western Australia.

1898. Walker, Frederic James, General Manager, St. James' and Pall Mall Electric Light Co., Carnaby Street, Golden Square, London, W. [*Licensable, London.* Gerrard 5082.]

1875. Walker, George, 95 Leadenhall Street, London, E.C.

1890. Walker, Henry, 11 Oxford Terrace, Gateshead.

1894. Walker, Henry Claude, Messrs. R. Waygood and Co., Falmouth Road, Great Dover Street, London, S.E. [*Waygood, London.* Hop 760.]

1875. Walker, John Scarisbrick, Messrs. Walker Brothers, Pagefield Iron Works, Wigan; and 15 Park Crescent, Southport. [*Pagefield, Wigan.*]

1902. Walker, Percy, Works Manager, Messrs. Callender's Cable and Construction Co., Belvedere, S.O., Kent.

1884. Walker, Sydney Ferris, 12 Leinster Square, London, W.

1876. Walker, Thomas Ferdinand, Ship's Log Manufacturer, 58 Oxford Street, Birmingham.

1890. Walker, William George, 47 Victoria Street, Westminster, S.W.

1878. Walker, Zaccheus, Jun., Fox Hollies Hall, near Birmingham.

1897. Wall, Charles Henry, Messrs. Lloyd and Lloyd, Coombs Wood, Halesowen, Birmingham.

1884. Wallace, John, Backworth Collieries, near Newcastle-on-Tyne.

1902. Wallace, John Crawford, Superintending Engineer, Mazawattee Tea Co., New Cross, London, S.E.

1895. Wallace, Joseph, Manahambre Road, Princestown, Trinidad.

1884. Wallau, Frederick Peter, Superintendent Engineer, Union Steam Ship Co., Southampton.

1868. Wallis, Herbert, 239 Drummond Street, Montreal, Canada.

1893. Wallwork, Roughsedge, Union Bridge Iron Works, Charter Street, Manchester.

1901. Walmsley, Charles, Atlas Iron Works, Bury, Lancashire. [*Pumps, Bury.* 64.]

1891. Walmsley, John, General Manager, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1865. Walpole, Thomas, Windsor Lodge, Monkstown, Co. Dublin.

1881. Warburton, John Seaton, 19 Stanwick Road, West Kensington, London, W.

1901. Ward, John, Superintendent Engineer, Amazon Steam Navigation Co., Para, North Brazil.

1902. Ward, Sydney Asline, Broad Street Lane, Park, Sheffield. [*Metallic, Sheffield.* 1547.]

1882. Ward, Thomas Henry, Mount Pleasant, Fentham Road, Gravelly Hill, Birmingham.

1864. Warden, Walter Evers, Phœnix Bolt and Nut Works, Handsworth, R.O., near Birmingham. [*Bolts, Birmingham.*]

1882. Wardle, Edwin, Messrs. Manning Wardle and Co., Boyne Engine Works, Hunslet, Leeds. [*Manning, Leeds.*]

1886. Warren, Frank Llewellyn, 120 Fenchurch Street, London, E.C. [*Vibroscope, London.*]

1899. Warren, Frederick Fridlezius, Managing Director, Messrs. Ross and Walpole, North Wall Iron Works, Dublin. [*Iron, Dublin.* 311.]

1885. Warren, Henry John, Jun., Cornwall Boiler Works, Camborne.

1885. Warren, William, Macequece, near Umtali, Manica, South Africa.

1897. Warren, William, Works Manager, Southwick Engine Works, near Sunderland.

1901. Warriner, Robert, Works Manager, Thames Engineering Works, Greenwich, London, S.E.

1889. Warsop, Thomas, Coniston Copper Mines, Coniston, R.S.O., Lancashire.

1900. Watchurst, Charles Leese, 26 Basinghall Street, 16 Wool Exchange, London, E.C. [*London Wall.* 335.]

1881. Watkins, Alfred, 58 Fenchurch Street, London, E.C.

1890. Watkinson, William Henry, Professor of Motive Power Engineering, Glasgow and West of Scotland Technical College, 38 Bath Street, Glasgow.

1900. Watney, Thomas Savile, 32–34 Greek Street Chambers, Park Row, Leeds. [*Energy, Leeds.* 2229.]

1893. Watson, George, 39 Victoria Street, Westminster, S.W. [*Meterage, London.*]

1900. Watson, George, Managing Director, Horsfall Destructor Co., 5 Greek Street, Leeds.

1890. Watson, George Coghlan, Manganese Bronze and Brass Co., St. George's Wharf, Deptford, London, S.E.; and 88 Tyrwhitt Road, Brockley, London, S.E.

1882. Watson, Henry Burnett, Messrs. Henry Watson and Son, High Bridge Works, Newcastle-on-Tyne. [*Watsons, Newcastle-on-Tyne.* 6517.]

1896. Watson, James Falshaw, 15 Shaw Lane, Headingley, Leeds. [*Inspection, Leeds.*]

1897. Watson, John B., Manager, British Uralite Works, Higham, Rochester; and Waverley, Kent Road, Gravesend.

1898. Watson, John Warden, 122 Cannon Street, London, E.C.

1897. Watson, Thomas John, 32 Grainger Street West, Newcastle-on-Tyne.

1877. Watts, John, 8 Nelson Street, Bristol.

1897. Wearing, John Evenden, Swan Buildings, Edmund Street, Birmingham.

1886. Weatherburn, Robert, Locomotive Manager, Midland Railway Works, Kentish Town, London, N.W.

1894. Webb, Henry, Messrs. Joseph Webb and Co., Irwell Forge and Rolling Mills, Bury, Lancashire.

1884. Webb, Richard George, Messrs. Richardson and Cruddas, Byculla Iron Works, Bombay, India: (or care of Messrs. Richardson and Hewett, 101 Leadenhall Street, London, E.C.)

1901. Webb, Thomas Henry, Brush Electrical Engineering Co., Loughborough.

1901. Webster, Francis John, Locomotive Department, Great Northern Railway, Doncaster.

1890. Webster, John James, 39 Victoria Street, Westminster, S.W.

1887. Webster, William, 6 Oxley Road, Singapore, Straits Settlements.

1891. Weightman, Walter James, care of Messrs. King, King and Co., Bombay, India.

1888. Wellman, Samuel T., Wellman-Seaver-Morgan Engineering Co., Cleveland, Ohio, United States.

1898. Wells, George James, 31 Whitworth Street, Manchester.

1886. Wesley, Joseph A., Clarke's Crank and Forge Works, Lincoln.

1882. West, Charles Dickinson, Professor of Mechanical Engineering, Imperial College of Engineering, Tokyo, Japan.

1895. West, Charles Herbert, Messrs. Henry H. West and Son, 5 Castle Street, Liverpool. [*Referee, Liverpool.* Central 5223.]

1898. West, Ernest Henry, Messrs. H. J. West and Co., Stamford Works, Southwark Bridge Road, London, S.E. [*Copperworm, London.* Hop 879.]

1876. West, Henry Hartley, Messrs. Henry H. West and Son, 5 Castle Street, Liverpool. [*Referee, Liverpool.* Central 5223.]

1894. West, John, Albion Iron Works, Miles Platting, Manchester.

1891. West, Leonard, Ravenhead Plate Glass Works, St. Helens, Lancashire.

1874. West, Nicholas James, Messrs. Nicholas J. West and Sons, 186 Gresham House, Old Broad Street, London, E.C. [*Unlapped, London.*]

1877. Western, Charles Robert, Broadway Chambers, Westminster, S.W. [*Donbowes, London.* Westminster 199.]

1877. Western, Maximilian Richard, care of Colonel Western, C.M.G., Broadway Chambers, Westminster, S.W.

1895. Westmacott, Henry Armstrong, Messrs. John Spencer and Sons, Newburn Steel Works, Newcastle-on-Tyne.

1862. Westmacott, Percy Graham Buchanan, Sir W. G. Armstrong, Whitworth and Co., Elswick Engine Works, Newcastle-on-Tyne; and Rose Mount, Sunninghill, Ascot.

1880. Westmoreland, John William Hudson, Lecturer on Engineering, University College, Nottingham.

1888. Weyman, James Edwardes, 2 Mavesyn Place, Fairfield, Manchester.

1900. Whale, George, Locomotive Department, London and North Western Railway, Crewe.

1896. Wheeler, Percy, General Manager, Oldbury Railway-Carriage and Wagon Works, Oldbury, near Birmingham. [*Carriage Co., Oldbury.*]

1898. Wheelock, Jerome, Worcester, Massachusetts, United States.

1898. Whitaker, Alfred, Resident Locomotive Superintendent, Somerset and Dorset Joint Railway, Highbridge, R.S.O., Somersetshire.

1894. Whitby, Arthur George, Homelea, Great Missenden, R.S.O., Bucks.

1882. White, Alfred Edward, City Engineer, Hull.

1901. White, Alfred Francis, Superintendent Engineer, Nippon Yusen Kaisha, Tokyo, Japan.

1901. White, Robert, 3 Victoria Street, Westminster, S.W.

1888. White, Sir William Henry, K.C.B., LL.D., D.Sc., F.R.S., late Assistant Controller of the Navy and Director of Naval Construction, 39 Roland Gardens, London, S.W.

1900. Whitehead, Arthur, Messrs. James Armstrong and Co., 116 Queen Victoria Street, London, E.C. [*Tolamaco, London.* Bank 5294.]

1901. Whitehead, Thomas, Broughton Copper Works, Manchester.

1890. Whitehouse, Edwin Edward Joseph, Monkbridge Iron Works, Leeds.

1900. Whitmore, Frank Leonard, Messrs. Fraser and Chalmers, Erith, S.O., Kent.

1902. Whittaker, Frederick William, Chief Engineer, Bradford Dyers' Association, 39 Well Street, Bradford.

1891. Whittaker, John, Messrs. William Whittaker and Sons, Sun Iron Works, Oldham.

1897. Whittell, Alfred Leighton, Surveyor, Lloyd's Register, 15 Bank Street, Fort, Bombay, India.

1878. Wicks, Henry, Messrs. Burn and Co., Howrah Iron Works, Howrah, Bengal, India: (or care of John Spencer, 121 West George Street, Glasgow.)

1897. Wicksteed, Charles, Stamford Road Works, Kettering.

1868. Wicksteed, Joseph Hartley, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1897. Widdowson, John Henry, Britannia Works, Ordsal Lane, Salford, Manchester; and 25 Withington Road, Whalley Range, Manchester. [*Taps, Salford.*]

1878. Widmark, Harald Wilhelm, Helsingborgs Mekaniska Verkstad, Helsingborg, Sweden.

1889. Wigham, John Richardson, Messrs. Edmundsons, Stafford Works, 35 Capel Street, Dublin.

1881. Wigzell, Eustace Ernest, Billiter House, Billiter Street, London, E.C. [*Wigzell, London.*]

1890. Wildy, William Lawrence, 26 Petherton Road, Highbury, London, N.

1892. Wilkinson, Edward R., Harwell House, Fortis Green, Finchley, London, N.

1898. Wilkinson, George, Kirkside, Bilton, Harrogate. [146.]

1901. Willatt, William Henry, Messrs. Reckitt and Sons, Hull.

1893. Williams, Arthur Edward, Resident Engineer, Dagenham Dock, Essex.

1883. Williams, Sir Edward Leader, Engineer, Manchester Ship Canal Co., 41 Spring Gardens, Manchester [*Leader, Manchester.* 688.]; and The Oaks, Altrincham.

1895. Williams, Henry Watson, Essex Street, Fremantle, Western Australia.

1884. Williams, John Begby, Central Marine Engine Works, West Hartlepool.

1901. Williams, John Norman Spencer, Hawaiian Commercial and Sugar Co., Kahului, Maui, T. H., Hawaiian Islands.

1885. Williams, Nicholas Thomas, Kelynack, St. Just, R.S.O., Cornwall.

1847. Williams, Richard (*Life Member*), Brunswick House, Wednesbury.

1890. Williams, Thomas David, 16 Lancaster Road, South Norwood, London, S.E.

1881. Williams, William Freke Maxwell, 20 Great St. Helen's, London, E.C.; and South Hill Bank, Gravesend.

1899. Williams, William Henry, Divisional Locomotive Superintendent, Great Western Railway, Swindon.

1889. Williams, William Walton, Gibraltar.

1897. Williams, Wyndham Henry, Messrs. Arthur Butler and Co., Mozufferpore, Tirhoot, India.

1896. Williamson, Joseph, Arden Ville, Balgray Hill, Springburn, Glasgow.

1883. Williamson, Richard, Messrs. Richard Williamson and Son, Iron Shipbuilding Yard, Workington; and South Lodge, Cockermouth.

1889. Willis, Edward Turnley, Hockley Hall and Whateley Colliery, Tamworth; and Dost Hill, Tamworth.

1897. Wills, Frank, Messrs. W. and F. Wills, Perseverance Works, Bridgwater.

1878. Wilson, Sir Alexander, Bart., Messrs. Charles Cammell and Co., Cyclops Steel and Iron Works, Sheffield.

1882. Wilson, Alexander Basil, Maryville House, Malone, Belfast. [201.]

1900. Wilson, Henry, Works Manager, Messrs. Walkers, Union Foundry, Maryborough, Queensland.

1884. Wilson, James, Pacha, P.O. Box 152, Cairo, Egypt.

1881. Wilson, John, Engineer, Great Eastern Railway, Liverpool Street Station, London, E.C. [*Wilson, Eastern, London.*]

1892. Wilson, John Charles Grant, care of Messrs. Turner, Schon and Co., 101 Leadenhall Street, London, E.C.

1890. Wilson, Joseph William, Principal of School of Practical Engineering, Crystal Palace, Sydenham, London, S.E.

1890. Wilson, Robert James, care of Messrs. Thomas Wilson and Co., 10 and 12 Eastcheap, London, E.C.

1873. Wilson, Thomas Sipling, Messrs. Holroyd Horsfield and Wilson, Larchfield Foundry, Hunslet Road, Leeds.

1888. Wilson, Walter Henry, Messrs. Harland and Wolff, Belfast.

1897. Wilson, William Campbell, Messrs. Charles Burrell and Sons, St. Nicholas Works, Thetford.

1897. Wilson, William Henry, Newton Avenue, Longsight, Manchester.

1899. Wilson, William Hope, 34 Maxwell Drive, Pollokshields, Glasgow.

1901. Wilton, Bartel, Messrs. Wilton's Yard, Westscedyk 402, Rotterdam, Holland.

1891. Wimshurst, James Edgar, Superintendent Engineer, Royal Mail Steam Packet Co., Southampton.

1890. Winder, Charles Aston, Messrs. Winder Brothers, Royds Works, Attercliffe, Sheffield.

1886. Windsor, Edwin Wells, 1 Rue du Hameau des Brouettes, Rouen, France.

1900. Wingfield, Charles Humphrey, care of Rev. A. C. Headlam, The Rectory, Welwyn.

1890. Wingfield, Digby Charles, Harland Rise, Polworth Road, Streatham, London, S.W.

1887. Winmill, George, Locomotive Superintendent, North Western Railway, Lahore, India: (or Harewood, Junction Road, Romford.)

1898. Winn, Charles Reginald, Messrs. Charles Winn and Co., St. Thomas Works, Granville Street, Birmingham. [*Winn, Birmingham.* 366.]

1872. Wise, William Lloyd, 46 Lincoln's Inn Fields, London, W.C. [*Lloyd Wise, London.* Holborn 378.]

1884. Withy, Henry, Messrs. Furness Withy and Co., Middleton Ship Yard, West Hartlepool. [*Withy, West Hartlepool.* 4246.]

1878. Wolfe, John Edward, Apartado 450, Havana, Cuba.

1888. Wolff, Gustav William, M.P., Messrs. Harland and Wolff, Belfast.

1900. Wollaston, Thomas Roland, 29 Corporation Street, Manchester. [*Parabola, Manchester.*]

1881. Wood, Edward Malcolm, 3 Victoria Street, Westminster, S.W.

1887. Wood, Henry, Messrs. John and Edward Wood, Victoria Foundry, Bolton.

1902. Wood, Hervey Alan, District Locomotive Superintendent, East Indian Railway, Jamalpore, Bengal, India.

1880. Wood, John Mackworth, New River Office, Rosebery Avenue, London, E.C.

1868. Wood, Sir Lindsay, Bart., Southhill, near Chester-le-Street.

1884. Wood, Sidney Prescott, Semaphore Iron Works, Newport, Melbourne, Victoria: (or care of H. W. Little, Messrs. McKenzie and Holland, Vulcan Iron Works, Worcester.)

1898. Wood, Sydney Henry, Gas Light and Coke Works, Beckton, London, E.

1890. Wood, Thomas Royle, Talleres Felipe Schwarz, 1959 Calle Patricios, Buenos Aires, Argentine Republic: (or care of William Wood, 28 Hyde Grove, Chorlton-on-Medlock, Manchester.)

1896. Wood, Walter Chapman, care of Messrs. J. Buchheister and Co., Shanghai, China.

1890. Wood, William, 31 Studley Road, Clapham Road, London, S.W.

1882. Woodall, Corbet, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1899. Woodhead, William Richard, 217 Inverness Place, Roath Park, Cardiff.

1897. Woods, Arthur Robert Thomas, Messrs. James Nelson and Sons, 41 North John Street, Liverpool.

1894. Woods, William Henry, Messrs. Hamilton Woods and Co., Liver Foundry and Engine Works, Ordsal Lane, Salford, Manchester. [*Sluice, Manchester.* 1962.]

1899. Woof, Thomas, Messrs. Alfred Herbert, 7 Leonard Street, Finsbury, London, E.C.

1898. Woollen, Thomas Henry, Managing Director, The New Jointless Rim Co., Arrol Works, Long Acre, Aston, Birmingham. [*Jointless, Birmingham.* 2625.]

1899. Wootton, John, Messrs. Wootton Brothers, Coalville Iron Works, Coalville, Leicester.

1895. Wordingham, Charles Henry, 19 Brasenose Street, Manchester. [5020.]

1887. Worger, Douglas Fitzgerald, Assistant Engineer, Southwark and Vauxhall Water Works, Southwark Bridge Road, London, S.E.

1874. Worsdell, Thomas William, Stonycroft, Arnside, near Carnforth.

1894. Worsdell, Wilson, Locomotive Superintendent, North Eastern Railway, Gateshead.

1877. Worssam, Henry John, Messrs. G. J. Worssam and Son, Wenlock Road, City Road, London, N. [*Massrow, London.* King's Cross 677.]

1886. Worthington, Charles Campbell, 120 Liberty Street, New York, United States.

1888. Worthington, Edgar, (Secretary), The Institution of Mechanical Engineers, Storey's Gate, St. James's Park, Westminster, S.W.

1860. Worthington, Samuel Barton, Consulting Engineer, 33 Princess Street, Manchester; and Mill Bank, Bowdon, near Altrincham.

1897. Worthington, William Barton, Chief Engineer, Lancashire and Yorkshire Railway, Manchester.

1899. Wotherspoon, James Douglas, Manager, Engineering Department, Great Grimsby Coal, Salt, and Tanning Co., Grimsby; and 39 Hainton Street, Grimsby.

1881. Wrench, John Mervyn, Chief Engineer, Great Indian Peninsula Railway, Victoria Terminus, Bombay, India.

1900. Wright, Benjamin Hollingworth, Messrs. Bewick, Moreing and Co., Broad Street House, New Broad Street, London, E.C.

1897. Wright, Frederick George, Great Western Railway Works, Swindon.

1876. Wright, James, 181 Queen Victoria Street, London, E.C. [*Apparatus, London.*]

1867. Wright, John Roper, Messrs. Wright Butler and Co., Elba Steel Works, Gower Road, near Swansea.

1859. Wright, Joseph, Metropolitan Railway-Carriage and Wagon Co., Saltley Works, Birmingham; and The Gresham Club, London, E.C.

1901. Wright, Walter, 8 Grosvenor Buildings, Steelhouse Lane, Birmingham.

1895. Wright, William, 16 Great George Street, Westminster, S.W.; and Dudley House, 10 St. John's Hill Grove, New Wandsworth, London, S.W.

1871. Wrightson, Sir Thomas, Bart., M.P., Messrs. Head Wrightson and Co., Teesdale Iron Works, Stockton-on-Tees.

1901. Wrightson, William Percival, 15A Highbury Crescent, London, N.

1891. Wroe, Joseph, 26 Park Avenue, Manchester, S.E.

1877. Wyvill, Frederic Christopher, 19 East Parade, Leeds.

1889. Yarrow, Alfred Fernandez, Isle of Dogs, Poplar, London, E.

1895. Yarwood, William James, Castle Dock Yard, Northwich. [74.]

1899. Yates, Joseph, Managing Director, Messrs. Matthews and Yates, Cyclone Works, Swinton, near Manchester. [*Cyclone, Swinton, Manchester.* 1871.]

1899. Yates, Walter, Managing Director, Messrs. Matthews and Yates, Cyclone Works, Swinton, near Manchester. [*Cyclone, Swinton, Manchester.* 1871.]

1880. York, Francis Colin, Locomotive Superintendent, Buenos Aires and Pacific Railway, Junin, Buenos Aires, Argentine Republic: (or care of W. Hannay, 18 Portland Street, Leamington.)

1879. Young, George Scholey, Engineer, Thames Engineering Works, late Messrs. John Penn and Sons, Greenwich, London, S.E.

1874. Young, James, 4 Granville Road, Newcastle-on-Tyne. [*Aid, Newcastle-on-Tyne.*]

1879. Young, James, Salroyd, Thornlaw Road, West Norwood, London, S.E.

1892. Young, Robert, Engineer and Manager, Penang Steam Tramways, Penang, Straits Settlements.

1894. Young, Smelter Joseph, The Tempered Spring Co., Limited, Rockingham Street, Sheffield. [*Tempered, Sheffield.* 354.]

1899. Young, Thomas, 203 West George Street, Glasgow.

1887. Young, William Andrew, Messrs. Lobnitz and Co., Renfrew, near Paisley [*Lobnitz, Renfrew.* 57, *Paisley.*]; and Millburn House, Renfrew, near Paisley.

1881. Younger, Robert, Messrs. R. and W. Hawthorn Leslie and Co., St. Peter's Works, Newcastle-on-Tyne.

ASSOCIATE MEMBERS.

1902. Abbott, Robert Hill, Superintendent Engineer, Ocean Accident and Guarantee Corporation, 9 Albert Square, Manchester.

1896. Abella, Juan, Buenos Aires and Belgrano Electric Tramways Co., 691 Calle Bolivar, Buenos Aires, Argentine Republic.

1898. Acfield, Wilfred Cosens, London Brighton and South Coast Railway, London Bridge, London, S.E.

1900. Adams, Albert Edward, Borough and Water Works Engineer, Chippenham

1901. Adams, Charles William, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1892. Adams, Sidney Rickman, P.O. Box 2221, Johannesburg, Transvaal, South Africa: (or care of Henry Adams, 3 Colville Square, Bayswater, London, W.)

1898. Adiassewich, Alexander Victorovitch, 16 Devonshire Square, Bishopsgate Street Without, London, E.C. [*Oligocene, London.*]

1900. Aitken, Thomas Martin, 126 Greenwich Road, London, S.E.

1900. Albrecht, John August, Constantia, Cape Town, Cape Colony.

1900. Alcock, Alfred Edwin, Messrs. John Dewhurst and Son, Attercliffe Road, Sheffield; and 352 Firth Park Road, Sheffield.

1899. Alder, George Frederick, Managing Director, Excelsior Engineering Co., Stafford Works, Stroud, Gloucestershire. [*Excelsior, Bowbridge.*]

1900. Alderson, Charles Albert Heselton, Messrs. Allen, Alderson and Co., Gracechurch Street, Alexandria, Egypt; and Norland House, Ramleh, near Alexandria, Egypt.

1890. Alderson, George Alexander, Messrs. Allen, Alderson and Co., Alexandria, Egypt; and The Cloisters, Bulkeley, Alexandria, Egypt.

1899. Alexander, Joseph George, Monck Street Depôt, Westminster, S.W.

1901. Allan, George, Jun., Haywood Forge, Halesowen, near Birmingham.

1894. Almond, Michael, Queenstown, South Africa: (or care of Robert Almond, 7 Grange Crescent, Southwick, Sunderland.)

1899. Ambrose, Sewell Powis, Empreza Industrial Portugueza, Lisbon, Portugal.

1900. Anderson, Athol Lancelot, A.C.E., Admiralty, H.M. Dockyard, Portsmouth.

1900. Andrew, Samuel Ernest, Electric Lighting Works, Cathall Road, Leytonstone, London, E.

1898. Andrews, Frederic Ernest, Brush Electrical Engineering Co., Falcon Works, Loughborough.

1897. Appleby, Harry Walton, Messrs. Gibbings and Baker, Old Bank Chambers, Bradford.

1895. Armstrong, George Edwin, Municipal School of Science and Technology, Richmond Terrace, Brighton.

1899. Arnold, Arnold Attwood, Messrs. Hick, Hargreaves and Co., Soho Iron Works, Bolton.

1898. Arnold, Frank William, Royal College of Science, Exhibition Road, South Kensington, London, S.W.; and 42 Summerfield Crescent, Birmingham.

1901. Arnold, Frederick Nathaniel, 44 Savernake Road, Hampstead, London, N.W.

1901. Arundel, Arthur Samuel Drew, Messrs. Arundel and Marshall, Penn Street Works, Hoxton, London, N.

1900. Asquith, William George, Valley Works, Shipley, Yorks.

1901. Aston, Edward Backland Stuckey, Messrs. John Batt and Co., 39 Old Broad Street, London, E.C.; and 283 Willesden Lane, Willesden Green, London, N.W.

1901. Atherton, Ernest Stanley, Southwood, St. George's Avenue, Northampton.

1901. Atherton, William Henry, 2 Holly Lea, Lime Avenue, Urmston, Manchester.

1896. Atkinson, Frederic, Albert Buildings, 49 Queen Victoria Street, London, E.C. [*Fixed, London.*]

1898. Atkinson, Henry, 110 Victoria Street, Westminster, S.W.

1897. Atkinson, Robert Ernest, Messrs. Ashwell and Nesbit, Great Central Street, Leicester. [*Plenum, Leicester.* 190.]

1901. Attock, Frederick William, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1900. Aughtie, Herbert, South Western Polytechnic, Chelsea, London, S.W.

1901. Ayers, Frederic Gordon, care of Messrs. Ayers and Gall, Weymouth Street, Adelaide, South Australia.

1897. Aylesbury, Thomas Antram, Carlyle House, 26 St. Agnes Place, Kennington Park, London, S.E.

1899. Baber, Samuel Ernest, Superintendent Engineer, Menantic and Mendota Steamship Co., 52 Queen Square, Bristol.

1899. Backhouse, John, Messrs. Thomas Robinson and Son, Railway Works, Rochdale,

1900. Bailey, Harry Dorning, Messrs. W. H. Bailey and Co., 16 Fenchurch Street, London, E.C. [*Soldurios, London.*]

1899. Baker, Henry Gouldthorpe, Messrs. John Baker and Co., Brinsworth Works, Rotherham. [*Brinsworth, Rotherham.* 89.]

1897. Baker, John, Manager, Messrs. Tansley's Ice Works, Lower Fazeley Street, Birmingham.

1900. Baldwin, Christopher Edmund, North Eastern Railway, Paragon Station, Hull.

1901. Bale, John Henry Fooks, Tramways Department, Town Hall, Manchester.

1899. Ball, Edmund Bruce, Messrs. Reavell and Co., Ranelagh Works, Ipswich.

1897. Ball, John, Geological Survey Office, Public Works Department, Cairo, Egypt.

1897. Bamber, Herbert William, Daimler Motor Co., Daimler Works, Coventry.

1896. Barba, Alfonso G., care of Alexander Wilson, 172 Fenchurch Street, London, E.C.

1900. Barber, Edward Whitley, care of W. H. Fowler, 53 New Bailey Street, Manchester; and 42 Whitby Road, Fallowfield, Manchester.

1899. Barker, Thomas Perronet, Messrs. Thomas Piggott and Co., Atlas Works, Birmingham.

1894. Baron, Francis Edward, 62 Market Street, Manchester. [*Horseless, Manchester.* 4218.]

1901. Barrow, Louis, Messrs. Cadbury Brothers, Bournville, near Birmingham.

1898. Bartle, George William, Albion Brewery, Mile End, London, E.

1901. Bartley, Bryan Cole, Jumpers Deep, Rand Mines, Johannesburg, Transvaal, South Africa: (or care of George C. T. Bartley, M.P., 57 Victoria Street, Westminster, S.W.)

1896. Barton, Andrew, Admiralty, 21 Craven Street, Strand, London, W.C.

1900. Barty, Alexander Douglas, Globe Works, Bankhall, Liverpool.

1899. Bateman, Arthur Henry, 11 Queen Victoria Street, London, E.C..

1901. Bear, Maurice Mayhew, Messrs. Holden and Brooke, Sirius Works, West Gorton, Manchester.

1901. Beck, Alexander Edward, 115 and 117 Cannon Street, London, E.C.

1897. Beck, John, care of Messrs. S. M. Schibaieff and Co., Bacou, Russia; (or care of S. W. Kendall, Montrose, Avenue Road, Weymouth.)

1897. Beckton, William Rushworth, 13 Brownlow Street, Holborn, London, W.C.

1900. Begbie, Sydney Dawson, Managing Director, Begbie Manufacturing Co., Cumberland Park, Willesden Junction, London, N.W.

1899. Begbie, William, Messrs. Thomas Begbie and Co., P.O. Box 459, Johannesburg, Transvaal, South Africa.

1900. Bell, Charles Sever, 156 Sloane Street, London, S.W.

1902. Bell, Frank, Signal Works, Engineers' Department, Midland Railway Derby.

1901. Bell, James Alexander, City Electrical and Tramway Engineer, Corporation Electricity Works, Cotton Street, Aberdeen.

1898. Bell, William, Messrs. J. and E. Hall, Dartford.

1890. Bell, William Thomas, The Elms, St. Catherine's, Lincoln.

1901. Benn, William Wiltshere Wentworth, Chief Engineer, Australasian Chilling and Freezing Co., Aberdeen, New South Wales.

1901. Bennett, Marshall Handyside, General Electric Co., 71 Queen Victoria Street, London, E.C.

1901. Bennett, Percy Mayson, Lincoln Arms Hotel, Weybridge.

1900. Bentley, Thomas Sims, Messrs. C. Churchill and Co., 9–15 Leonard Street, Finsbury, London, E.C.

1898. Berry, Thomas, 53 Cowgate, Dundee. [*Steampump, Dundee.*]

1899. Beves, Norman Ellison, St. Margaret's, Dyke Road, Brighton.

1898. Bigger, Courtenay, Falmore Hall, Dundalk, Ireland.

1901. Bindemann, Harry Otto Ferdinand, Union Elektricitäts Gesellschaft, 43 Dorotheen Strasse, Berlin.

1900. Bishop, Charles Herbert, The Gables, Egremont, Liverpool.

1902. Blagden, Henry Robert Cecil, Chief Engineer, Alexandria Water Co., Alexandria, Egypt.

1899. Blissett, Percival Thomas, Messrs. A. Guinness Son and Co., St. James' Gate Brewery, Dublin.

1896. Blumfield, Thomas William, Clifton Works, Clifton Road, Balsall Heath, Birmingham.

1901. Bond, John Thomas, National Boiler and General Insurance Co., 22 St. Ann's Square, Manchester.

1901. Bonniwell, Percival Ormond, Chief Engineer, Law Accident Insurance Society, 215 Strand, London, W.C.

1901. Boot, James Noel, Worthington Pumping Engine Co., 153 Queen Victoria Street, London, E.C.

1896. Bosley, Walter Joseph, Wharf Superintendent, Corporation Wharf, Southampton.

1902. Bott, Walter Stanley, Messrs. Allen Ransome and Co., Stanley Works, Newark.

1895. Boulden, Frederick, Technical Department, University College, St. George's Square, Sheffield.

1898. Bouts, Thomas, Messrs. Ernest Scott and Co., 2 Talbot Court, Gracechurch Street, London, E.C.; and 16 Althorp Road, Tooting, London, S.W.

1902. Bow, John, Ferro Carril del Sud, Dept. de Via y Obras, Buenos Aires, Argentine Republic.

1900. Boyd, William, Resident Engineer, Northwich Electric Supply Co., 25 Castle Street, Northwich.

1898. Bradley, Godfrey Thomas, care of the Colonial Secretary, Colombo, Ceylon.

1896. Bremner-Davis, William Joseph, 36 Kylemore Road, West Hampstead, London, N.W.

1901. Bressey, Cyril Edward, Locomotive Department, Great Central Railway, Gorton, Manchester.

1898. Brett, Alfred William, Albion Drop Forgings Co., Foleshill, Coventry. [*Albion, Great Heath.*]

1901. Briggs, Ernest Reynolds, Messrs. Willans and Robinson, Victoria Works, Rugby; and 119 Bath Street, Rugby.

1898. Briggs, Herbert, P.O. Box 1976, Johannesburg, Transvaal, South Africa.

1898. Brindley, Harry Samuel Bickerton, 3 Awoicho Akasaka, Tokyo, Japan.

1900. Britten, Thomas, Electric Construction Co., Wolverhampton.

1900. Brooks, Harry Gordon, Locomotive Works, Midland Railway, Kentish Town, London, N.W.

1901. Brotherhood, Stanley, 15 Belvedere Road, Lambeth, London, S.E. [*Brotherhood, London.*]

1901. Brown, John Pollock, Messrs. Denny and Co., Dumbarton; and 2 Parkgrove Terrace, Glasgow.

1901. Brown, Tom Edward Bennett, Managing Director, Messrs. Ross, Courtney and Co., 25 Ashbrook Road, Upper Holloway, London, N.

1895. Bruce, Robert Arthur, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1901. Buchanan, William Ernest, Superintendent, Simla Water Works, Simla, Punjab, India.

1901. Budding, Brice Henry, Jun., 146A Portway, West Ham, London, E.

1898. Bulfin, Ignatius, Municipal Offices, Bournemouth.

1900. Bull, Rowland Francis, care of Dr. Alexander B. W. Kennedy, 17 Victoria Street, Westminster, S.W.

1900. Bull, Thomas Palmer, Messrs. Morgan and Co., New Brewery, Port Elizabeth, Cape Colony.

1901. Bullock, Richard Cecil, Engineer's Office, West India Docks, London, E.

1893. Burden, Alfred George, Messrs. Harvey and Co., P. O. Box 953, Johannesburg, Transvaal, South Africa: (or care of George N. Burden, Oakfield, Teignmouth.)

1895. Burn, George Francis, The Technical School, Cookridge Street, Leeds.

1890. Burne, Edward Lancaster, Messrs. Dickinson and Burne, Church Acre Iron Works, Guildford. [*Ploughshare, Guildford.* 40.]

1897. Burnside, Bertram W., B. G. J. P. Railway, Bhavnagar Para, Kathiawar, Bombay, India.

1899. Burt, Thomas Ross, 63 Finsbury Pavement, London, E.C.

1902. Busfeild, William, Hunslet Engine Works, Leeds.

1891. Butcher, Walter Edward, Messrs. Crompton and Co., Arc Works, Chelmsford.

1891. Buttenshaw, George Eskholme, Stoneleigh, Rotherham.

1900. Calderwood, William, Works Manager, Messrs. Palmer and Co., Stratford, London, E.

1898. Cameron, Robert Barr, Municipal School of Science and Technology, Richmond Terrace, Brighton.

1901. Campbell, Ernest Waterhouse, Messrs. Campbells and Hunter, Dolphin Foundry, Saynor Road, Hunslet, Leeds.

1899. Cannell, William, 12 Heath Terrace, Leamington.

1901. Carnegie, Francis, Chief Mechanical Engineer's Department, Royal Arsenal, Woolwich.

1901. Carnegie, William, Woolwich Polytechnic, William Street, Woolwich.

1896. Carolin, Edward Marlay, P. O. Box 80, Bloemfontein, Orange River Colony, South Africa.

1900. Carr, Harry Oswald, Wandsworth and Putney Gas Light and Coke Co., North Street, Wandsworth, London, S.W.

1898. Carr, James John William, Woodland Works, Grove Lane, Smethwick, Birmingham. [*Bells, Smethwick.* 2018.]

1900. Carrod, Henry, 36 Peelmoat Road, Heaton Moor, near Stockport.

1900. Carstairs, Gilbert Langlois, 12 Kingswood Road, Seven Kings, Ilford.

1901. Carter, Frank, Messrs. Carter Brothers, Bridge Street Iron Works, Rochdale.

1900. Carter, Samuel Arthur, Perak State Railways, Tapah Road, Taiping, Federated Malay States.

1901. Cartmell, John Monkhouse, 64 Buchanan Street, Glasgow.

1900. Casebourne, Ambrose Cubitt, 12 Cheltenham Terrace, Heaton-on-Tyne.

1900. Cash, Ernest William, British Thomson-Houston Co., Rugby.

1899. Cater, John McIlvaine, British Westinghouse Electric and Manufacturing Co., 65 Renfield Street, Glasgow.

1900. Catmur, Thomas Stucley, Inglenook, Romiley, Stockport.

1900. Cattell, William, 34 Vicarage Road, Wolverhampton.

1900. Cave, Henry, Ousebridge, Carlton, near Nottingham.

1897. Cerrito, Frank Henry, 39 Newhall Street, Birmingham. [*Cerrito, Birmingham.* 2837.]

1895. Challenger, Godfrey Richard, Messrs. John Jameson and Son, Bow Street Distillery, Dublin.

1899. Chapman, Samuel, Mitchell's Emery Wheel Co., Mill Street, Bradford, Manchester.

1890. Chatwood, Arthur Brunel, Lancashire Safe and Lock Works, Bolton; and The Withins, Breightmet, Bolton.

1899. Cheffins, Harold William Joshua, Messrs. J. B. White and Brothers, Swanscombe, Kent.

1900. Chorley, Richard, Technical School, Stockport.

1896. Clare, Ernest, Straker Steam Vehicle Co., 9 Bush Lane, Cannon Street, London, E.C.

1894. Clark, James Lester, 75 Buchanan Street, Glasgow.

1899. Clarke, Arthur Laver, Gas Engineer, Gas Works, Maldon, Essex.

1900. Clarke, Leigh Theophilus, Electrical Department, Great Central Railway, Woodford, Northants.

1895. Clatworthy, Walter Angove, 29 Lily Avenue, Jesmond, Newcastle-on-Tyne.

1898. Cleave, Arthur Harold Wyld, Royal Mint, London, E.

1901. Cleaver, William, Locomotive Engineer's Office, Port Talbot Railway and Docks, Port Talbot.

1897. Clegg, John Henry, Lower Lumb Mill, Heptonstall, Manchester.

1899. Clerk, Archibald, Works Manager, Messrs. Adolphus Barron and Co., Eastern Boulevard, Leicester. [*Shafting, Leicester.* 558.]

1892. Cleverly, William Bartholomew, Stourbridge Water Works, Coalbourne Brook, Stourbridge.

1901. Clifton, William George, Messrs. Defries and Sons, 147 Houndsditch, London, E.C.

1901. Close, Henry Alwyn, Messrs. Richard Hornsby and Sons, Spittlegate Iron Works, Grantham; and 37 Harlaxton Road, Grantham.

1900. Cluff, Richard, Engineer's Department, St. James' Gate Brewery, Dublin.

1898. Cobbold, Arthur Westhorp, care of A. T. Cobbold, The Rookery, Sproughton, Ipswich.

1901. Colbourne, Thomas Salmon, Managing Director, Messrs. John D. Young and Son, Lion Iron Works, Barnstaple.

1901. Cole, Alfred Thomas, 12 North Road, Clapham Park, London, S.W.

1902. Collyer, Percy Nicholson, Messrs. Palmer's Shipbuilding and Iron Works, Jarrow-on-Tyne.

1896. Comerford, Edward, Abbot's Grange, Liverpool Road, Chester.

1897. Connell, William Percival, Bella Vista 28, Minas de Rio Tinto, Huelva, Spain: (or care of W. G. Connell, 83 Cheapside, London, E.C.)

1896. Conradi, Julius Samuel, Messrs. John I. Thornycroft and Co., Church Wharf, Chiswick, London, W.

1900. Coombs, James Alger, Messrs. Hughes and Lancaster, Acrefair, Ruabon.

1899. Cooper, George, 61 Albion Street, Leeds.

1896. Cooper, Thomas, Cox Thermo Electric Co., St. Albans; and Spring Valley, Beaconsfield Road, St. Albans.

1900. Cooper, William James, 83 and 84 Bromsgrove Street, Birmingham. [*Thermal, Birmingham.*]

1901. Cooper, William James, Ocean Accident and Guarantee Corporation, 36–44 Moorgate Street, London, E.C.

1895. Corby, Matthew, Messrs. Thomas Firth and Sons, Norfolk Works, Sheffield; and 160 Hagley Road, Birmingham.

1899. Corrie, John Bradford, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1902. Cotsworth, Haldane Gwilt, Battersea Polytechnic, London, S.W.

1901. Cottrell, George, Messrs. Cottrell, Rose and Co., Eddington Iron Works, Hungerford. [*Cottrell, Hungerford.*]

1901. Couch, Richard Ernest, 23 Richmond Road, Brighton.

1902. Coulson, Horace Ernest, The British Westinghouse Electric and Manufacturing Co., Norfolk Street, Strand, London, W.C.; and 238 Wandsworth Bridge Road, Fulham, London, S.W.

1894. Coventry, Theodore, Messrs. Smith and Coventry, Gresley Iron Works, Ordsal Lane, Salford, Manchester. [*Gresley, Manchester.* 564.].

1895. Cowie, William, 25 Baird Street, Coatbridge.

1896. Cox, Edward Henry, De la Vergne Refrigerating Machine Co., Foot of East 138th Street, New York, United States.

1897. Craig, Alexander, Messrs. Humber and Co., Coventry.

1902. Cramb, Alexander Charles, Borough of Hampstead, Electricity Department, Lithos Road, Finchley Road, London, N.W.

1902. Crawford, Gerald Walker, 79 Princes Street, Edinburgh.

1900. Crawford, John Forcer, Washington Foundry, Fulton Street, Liverpool. [*Ferro, Liverpool.* Bootle 63.]

1897. Crooke, Walter, Jun., Frodingham, near Doncaster.

1887. Crosland, Delevante William, 1 Upper Addison Gardens, Kensington, London, W.

1901. Crow, Lewis, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1900. Cruickshank, George Seymour, Messrs. Bircher and Tatham, Boulder Block, Kalgoorlie, Western Australia.

1901. Cullum, William Wright, 145 Romford Road, Stratford, London, E.

1901. Cummins, Reginald Ernest, 39 St. James's Square, Notting Hill, London, W.

1899. Cunliffe, Tom Arthur, Hartlepool Electric Tramway Co., Cleveland Road, West Hartlepool.

1895. Cust, Leopold, Gas Traction Co., 22 Chancery Lane, London, E.C.; and 99 Onslow Square, London, S.W.

1901. Dare, Arthur Newman, care of Vincenz Heinik, Prerau, Mähren, Austria.

1900. Darker, Alfred Henry, Messrs. J. Stone and Co., Deptford, London, S.E.

1894. Davey, Edward Ernest George, Polytechnic School of Engineering, 309 Regent Street, London, W.

1901. Davidson, John, Messrs. Browett, Lindley and Co., Patricroft, near Manchester; and 8 Trafford Road, Eccles.

1901. Davies, Francis Edward, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.; and 51 Tregunter Road, South Kensington, London, S.W.

1898. Davies, Hugh, 124 Holborn, London, E.C.

1896. Davis, Francis Myddleton, Works Manager, Messrs. R. and T. Elworthy, Elizabethgrad, Russia.

1900. Davis, Harry Charles, care of Druitt Halpin, 17 Victoria Street, Westminster. S.W.

1897. Davy, David, Manager, Messrs. Henry Berry and Co., Croydon Works, Leeds.

1901. Dawson, Henry Watson, Messrs. Meldrum Brothers, Engineers, Manchester.

1890. Day, Arthur Godfrey, Director of Studies, Science Art and Technical Schools, Guildhall, Bath.

1899. Day, Claud Albert Stainton, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.; and Grosvenor House, Isleworth.

1901. Dean, George, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.

1901. Delacour, Harry Mark, Messrs. Henry Smith and Co. (Kieff), 96–98 Leadenhall Street, London, E.C.

1899. De Ville, Martin, Ocean Accident and Guarantee Corporation, 36–44 Moorgate Street, London, E.C.

1901. Dickinson, Henry Winram, Victoria and Albert Museum, South Kensington, London, S.W.

1898. Dickinson, William, Messrs. Dickinson and Burne, Church Acre Iron Works, Guildford. [*Ploughshare, Guildford.* 40.]

1901. Digby, William Pollard, Messrs. W. Hutchinson and Co., Trafalgar Buildings, Northumberland Avenue, London, W.C.

1902. Dixon, John, 203 West George Street, Glasgow.

1898. Dobbs, Herbert Treadwin, Locomotive Carriage and Wagon Department, Barry Railway, Barry, near Cardiff.

1899. Dodridge, Frederick, 21 Rectory Road, Church Hill, Walthamstow, London, N.E.

1898. Donald, David Boswell, Manager, Messrs. John Freeman, Sons and Co., Penryn. [*Freeman, Penryn.*]

1898. Donne, Frederick Edward Mowbray, Locomotive Department, Midland Railway, Derby.

1896. Dossor, Herbert, Messrs. Richard Hornsby and Sons, Spittlegate Iron Works, Grantham.

1899. Douglas, William Saunders, Consett Iron Works, Consett, R.S.O., County Durham.

1891. Douglass, Alfred Edwards, South Staffordshire Water Works, Paradise Street, Birmingham.

1896. Dowson, Erasmus Charles Head, Lattendales, Penrith.

1898. Dowson, Robert Manning, Civil Service Club, Cape Town, Cape Colony: (or Felixstowe, The Park, Nottingham.)

1900. Drake, Arthur James, General Manager, Stirling's Motor Carriages, Granton, Edinburgh.

1901. Draycott, George Edwin, Borough Road Polytechnic, London, S.E.

1900. Dresser, Charles, Messrs. Robertson and Outram, 28 Victoria Street, Westminster, S.W.

1900. Drewitt, William Henry, Messrs. J. and P. Coats, Ferguslie Thread Works, Paisley.

1895. Dronsfield, James, Messrs. Dronsfield Brothers, Atlas Works, Oldham.

1902. Dryden, William, Grimshaw Street Foundry, Preston.

1895. Dumas, Robert, Messrs. Siemens Brothers and Co., Woolwich.

1901. Duncan, John, Municipal Technical Institute, Romford Road, West Ham, London, E.

1895. Duncan, William, Locomotive Department, Cape Government Railways, Uitenhage, Cape Colony.

1901. Dunton, Ernest William, 222 Trinity Road, Wandsworth Common, London, S.W.

1901. Eastlake, Arthur William, 4 Bishopsgate Street Within, London, E.C.

1894. Eastmead, Frederic James, Messrs. Moffatt and Eastmead, Green Street Engineering Works, Blackfriars, London, S.E.

1902. Eaton, George Henry, 18 Broxash Road, Clapham Common, London, S.W.

1900. Edleston, Alfred Edward, Locomotive Superintendent, North Mount Lyell and Macquarie Harbour Railway, Kelly Basin, Tasmania.

1893. Edmondson, Alfred Richard, The Oaks, Moss Lane, Timperley, Altrincham.

1898. Edwards, Edgar Llewellyn, 125 Edmund Street, Birmingham.

1899. Edwards, James George Benjamin, Southern Higher Grade School, Bewerley Street, Leeds.

1900. Ellington, Guy, London Hydraulic Power Co., 9 Bridge Street, Westminster, S.W.; and Rosslyn, Kingston Hill, Kingston-on-Thames.

1898. Ellis, Jesse, Invicta Works, St. Peter Street, Maidstone. [*Jesse Ellis, Maidstone.* 2.]

1900. Ellison, John, 26 Vernon Road, Leeds.

1902. Embleton, Charles Arnold, care of George Cawley, 29 Great George Street, Westminster, S.W.

1900. Enock, Arthur Guy, 20 Church Road, Willesden, London, N.W.

1898. Enock, Donald, P. O. Box 471, Durban, Natal.

1899. Enock, Eric Cuthbert, Manager, Messrs. W. Ball and Co., Coombe Engine Works, Dartmouth.

1902. Epps, Laurence George John, St. James's and Pall Mall Electric Light Co., Carnaby Street, Golden Square, London, W.

1897. Epton, William Martin, Village Main Reef Gold Mining Co., P.O. Box 1091, Johannesburg, Transvaal, South Africa.

1900. Evans, Griffith Cooper, Messrs. Taite, Howard and Co., 63 Queen Victoria Street, London, E.C.

1899. Everson, Frederick Charles, British Electric Traction Co., Donington House, Norfolk Street, Strand, London, W.C.

1901. Evetts, William, Jun., Tackley, Oxford.

1899. Fairley, Frank, 9 Queen Street Place, London, E.C.

1895. Fawcett, Percy William, Whirlow Court, Sheffield.

1896. Fforde, William John, 2 Glenview Terrace, Springfield Road, Belfast.

1900. Fiegehen, Edward George, Bedford Engineering Co., Bedford.

1894. Finlayson, David, Fenton Street, Alloa.

1896. Firth, John, 58 Church Street, Stockport.

1894. Fitz-Gerald, John Frederick Gerald, care of El Señor Ingeniero, Departamento de Vias y Obras F.C.S., Buenos Aires, Argentine Republic.

1900. FitzHerbert, Arthur Hugh Francis, Electrical Department, Midland Railway, St. Pancras, London, N.W.; and 6 Gatcombe Road, Tufnell Park, London, N.

1895. Fleischer, Paul, Messrs. A. Guinness, Son and Co., St. James' Gate Brewery, Dublin.

1898. Fletcher, Harold Clarkson, Messrs. Johnson and Fletcher, P.O. Box 580, Bulawayo, Rhodesia, South Africa.

1892. Fletcher, Joseph Ernst, Messrs. Charles Cammell and Co., Cyclops Works, Sheffield.

1899. Flint, Leonard Robert, 92 Crescent Street, Montreal, Canada.

1895. Forbes, George Chichester, Locomotive Department, South Indian Railway, Negapatam, India.

1901. Forster, Andrew, Messrs. J. Samuel White and Co., Cowes, Isle of Wight.

1895. Foster, Edward Hornby, Messrs. John Foster and Son, Black Dike Spinning Mills, Queensbury, near Bradford.

1902. Foster, Sydney, Lancashire and Yorkshire Railway, Fleetwood, R.S.O., Lancashire.

1898. Fowler, Percy Merwood, P. O. Box 1876, Johannesburg, Transvaal, South Africa.

1901. Fox, Edmund John, Grosvenor House, Clifton Road, Rugby.

1899. Fox, Frederick Joseph, Messrs. Bryan Corcoran, Back Church Lane, Whitechapel, London, E.; and 49 Farquhar Road, Upper Norwood, London, S.E.

1899. Fox, Henry Shoolbred, Manager, Messrs. G. J. Worssam and Son, Wenlock Road, City Road, London, N. [*Massrow, London.* King's Cross 677.]

1896. Fraser, Frank Hazell, Messrs. W. J. Fraser and Co., 98 Commercial Road East, London, E. [*Fraser, Engineer, London.* Avenue 4413.]

1899. Freeman, Walter William, Chetham Villa, Dresden, Stoke-on-Trent.

1899. French, Arthur Houle, Chelmsford Electric Lighting Co., Arc Works, Chelmsford.

1897. Frerichs, Jacob Andrew, care of Consolidated Goldfields of South Africa, P.O. Box 1167, Johannesburg, Transvaal, South Africa.

1900. Fripp, Steuart, Jun., Natal, Rio Grande do Norte, Brazil.

1901. Fryer, Tom Jefferson, Managing Director, Midland Manufacturing Co., 20 Change Alley, Sheffield.

1900. Furnivall, William Henry Graham, Constitutional Club, Northumberland Avenue, London, W.C.

1899. Gale, Robert Harry, 38 Scarsdale Villas, Kensington, London, W.

1896. Gallé, William Alexandre, Locomotive Department, Great Central Railway, Gorton, Manchester.

1900. Garland, Frederick Joseph, Birmingham Corporation Water Department, Broad Street, Birmingham.

1901. Garratt, Ernest Albert, Messrs. Jacobs and Barringer, 78 Gracechurch Street, London, E.C.

1896. Garratt, James Herbert, Messrs. Boustead Brothers, Colombo, Ceylon.

1896. Garrett, Easton, Messrs. Bailey, Walker and Co., 456 Calle Cuyo, Buenos Aires, Argentine Republic.

1890. Garrett, Frank, Jun., Messrs. Richard Garrett and Sons, Leiston Works, Leiston, R.S.O., Suffolk.

1898. Garvey, Richard Godfrey Hamilton, Messrs. Bowes, Scott and Western, Bridge Road, Battersea, London, S.W.

1900. Gash, Lumley Clifton, Works Manager, Messrs. William Foster and Co., Lincoln.

1900. Gaston, Alfred Benjamin, 18 Edburton Avenue, Preston, Brighton.

1901. Gawthorne, William Arthur, Kohinoor Mills Co., Bombay, India.

1900. George, James MacNaughten, Gourepore Co., Gourepore, near Calcutta, India.

1902. George, John William, 25 Birdhurst Road, Wandsworth, London, S.W.

1899. Gibbins, John Ernest, Shoreham Saw Works, White Croft, Sheffield.

1901. Gibbons, James Olliff Griffits, 451 Stretford Road, Old Trafford, Manchester.

1900. Gibson, George Henry, care of D. Home Morton, 95 Bath Street, Glasgow; and 84 Buccleuch Street, Garnethill, Glasgow.

1900. Gilling, Arthur Hewitt, Messrs. Mitrovich Brothers, Iquique, Chile.

1900. Ginders, Ernest Marsh, 348 Moseley Road, Birmingham.

1899. Girvan, William, Sandakan Engineering Works, Sandakan, British North Borneo.

1896. Given, Ernest Cranston, Messrs. Priestman and Co., Philadelphia, Pennsylvania, United States; and The Lodge, Aigburth, Liverpool.

1901. Goddard, William Herbert, care of General Manager, Great Southern Railway, Buenos Aires, Argentine Republic.

1900. Godson, Edward Harold, 24 Fitzroy Road, Regent's Park, London, N.W.

1896. Goffe, Edward, De Beer's Consolidated Mines, Kimberley, Cape Colony.

1898. Golding, Henry Albert, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.

1902. Golledge, William Thomas, Messrs. Aublet, Harry and Co., 53-55 Curtain Road, London, E.C.

1900. Goodman, Alfred Christian, General Manager, Patent Enamel Co., Selly Oak, Birmingham. [*Original, Selly Oak.*]

1898. Gordon, James, 52 Lime Street, London, E.C. [*Gordolobo, London*]; and 23 St. James' Mansions, West End Lane, West Hampstead, London, N.W.

1897. Gordon, John Wilton, Messrs. John Gordon and Co., Dashwood House, 9 New Broad Street, London, E.C.

1901. Gore, Herbert Reginald, Eastleigh Iron Works, Eastleigh, R.S.O., Hants.

1902. Goudie, William John, 92 Albert Drive, Crosshill, Glasgow.

1901. Goulding, Benjamin Joseph John, Chief Engineer, Machinery Trust, 189 Fleet Street, London, E.C.

1899. Goulstone, Ernest Edwin, Superintendent, Water and Sewage Works, Cawnpore, India.

1898. Graham, Hubert Berger, Linden House, Gough Road, Edgbaston, Birmingham.

1900. Graham, Walter, Managing Director, Messrs. John Hastie and Co., Kilblain Engine Works, Nicholson Street, Greenock. [*Hastie, Greenock.* 133.]

1901. Grant, Daniel John, Messrs. Harland and Wolff, Queen's Island, Belfast.

1897. Grant, Hector, 92 West Regent Street, Glasgow.

1896. Grant, William, Messrs. Workman, Clark and Co., Engine Works, Queen's Road, Belfast.

1899. Green, John Singleton, Municipal Offices, Haslingden, near Manchester.

1900. Greene, Frank Arnold, Messrs. Henry Greene and Co., 22 Martin's Lane, London, E.C. [*Three Keys, London.* Bank 5827.]

1900. Griffiths, William John, Messrs. McKenzie and Holland, 61 Sinclair Road, West Kensington, London, W.

1900. Grimley, William Richard Nash, Chief Engineer, Alliance Electrical Co., 137 Regent Street, London, W.

1893. Gritton, Joseph, Elmdon, Newton Lane, Hoole, Chester.

1895. Groundwater, Samuel, Messrs. S. C. Farnham and Co., Old Dock, Shanghai, China.

1897. Grove, Harry, Messrs. Willey and Co., Exeter; and 18 Adam Street, Adelphi, London, W.C.

1895. Groves, Montague, Grand Manica Development Co., Umtali, Rhodesia, South Africa.

1894. Hadengue, Charles Benjamin, Messrs. Carew and Co., Rosa Sugar Works, Rosa, North Western Provinces, India.

1899. Hadley, William Pearce Holbrow, Messrs. Turner, Hoare and Co., Bombay, India.

1902. Hale, Harold, Electric Light Works, Montrose.

1902. Haler, Percy James, Wedgwood Institute, Burslem, Staffs.

1896. Hall, Benjamin James, 39 Victoria Street, Westminster, S.W.

1894. Hall, Robert Frederick, Ferndale, Church Road, Moseley, Birmingham.

1897. Halsey, Charles Turner, Haslam Foundry and Engineering Co., Derby; and 106 Uttoxeter New Road, Derby.

1901. Hamilton, Thomas Fulton, Carron Iron Works, Carron, R.S.O., Stirlingshire.

1901. Hampton, Joseph, Messrs. Samuel Buckley and Co., Birmingham.

1901. Hanning, William, 17 Rue de Maubeuge, Paris.

1902. Hardcastle, Edward, Messrs. Whitaker Brothers and Co., Newlay, near Leeds.

1901. Hardwick, Eustace James, Messrs. W. H. Willcox and Co., 23 Southwark Street, London, S.E.; and 42 Linthorpe Road, Stamford Hill, London, N.

1902. Hardy, James Henry, Municipal Technical School, Halifax.

1894. Hardy, William, Woodview, Bessbrook, County Armagh, Ireland.

1898. Harling, William, 12 Derwent Road, Lancaster.

1897. Harlow, Bernhard Schäffer, Messrs. Robert Harlow and Son, Heaton Norris Brass Works, Stockport.

1902. Harper, Neville Charles Thomason, Northdene, Natal.

1901. Harris, Henry Evans, Manager, Messrs. Massey and Co., Madras, India.

1894. Harris, Herbert Nelson, St. Michael's Foundry, Bridport.

1901. Harris, William Robert Alexander, Messrs. Thomas and Green, Soho Paper Mills, Wooburn, Bucks.

1899. Harwood, James Henry, Messrs. Masson, Scott and Co., York Place, New Wandsworth, London, S.W.

1897. Harwood, Robert Henry, Howrah Jute Mills, Seebpore, Calcutta, India.

1900. Haskew, Frederick John Thomas, Messrs. Lloyd and Lloyd, Coombs Wood Tube Works, Halesowen, near Birmingham; and High Street, Stourbridge.

1902. Hathorn, James Charles Murray, 58 Bouverie Road West, Folkestone.

1901. Hatschek, Emil, 41 Montserrat Road, Putney, London, S.W.

1900. Haughton, George Bayly, Messrs. Haughton and Co., 6 Lombard Court, London, E.C. [*Haughnot, London.*]

1896. Hawes, David Marc Andrew Graham, Bourne Engineering Co., 19 and 21 Queen Victoria Street, London, E.C.

1897. Hawes, William Fox, Jun., Messrs. Kincaid, Waller and Manville, 29 Great George Street, Westminster, S.W.

1901. Hawkins, Lawrence Granville, Messrs. F. Street and Co., Palacio da Flôr da Murta, Rua do Poço dos Negros, Lisbon, Portugal.

1897. Hawkins, Thomas Spear, Millpond House, Hayle.

1901. Hawks, Nicholas Swanson, Manager and Superintendent Engineer, Albert Dock Engine Works, Royal Albert Dock, London, E.

1902. Hawksley, Charles William, Brightside Boiler and Engine Works, Savile Street East, Sheffield.

1900. Hawksworth, Frederick Sydney, Messrs. John Spencer and Co., Globe Tube Works, Wednesbury; and 60 Winter Street, Sheffield.

1900. Haywood, Arthur Robert, Locomotive Department, Great Central Railway, Staveley, Chesterfield.

1896. Heath, Charles Lewis Eclair, Municipal Technical School, Park Street, Hull.

1897. Hemingway, Alfred, Great Southern Railway, Albany, Western Australia.

1894. Henderson, Arthur James, 29 Westbourne Park Villas, Paddington, London, W.

1902. Henderson, Donald Douglas, Messrs. Burstall and Monkhouse, 14 Old Queen Street, Westminster, S.W.

1901. Henderson, Robert, Messrs. James Milne and Son, Milton House Works, Edinburgh.

1899. Hepworth-Collins, Walter, care of Messrs. Edward Wihl and Co., 17 Nicholas Street, Manchester. [*Collins, care Astra, Manchester.*]

1898. Herschmann, Arthur Julius, Mechanical Engineer, Adams Express Co., 61 Broadway, New York, United States.

1901. Heward, Sidney Edgar, Messrs. Crompton and Co., Salisbury House, London Wall, London, E.C.

1901. Hey, John, Vicarage Lane, Belgrave, Leicester.

1901. Heydeman, Harry George Julius, P.O. Box 395, Durban, Natal.

1900. Hicks, Fredrick George, Messrs. F. G. Hicks and Co., South Quay, St. Sampson's, Guernsey.

1901. Higginbotham, George, Calico Printers' Association, 56 Mosley Street, Manchester.

1899. Hildage, Henry Thomas, Contractor's Office, Baker Street to Waterloo Railway, Victoria Embankment, London, S.W.

1898. Hill, Alfred Percy, 144 Machon Bank, Nether Edge, Sheffield.

1898. Hill, Joseph, Western Works, Hythe Road, Willesden Junction, London, N.W.

1897. Hill, Walter Charles, 62 High Road, Kilburn, London, N.W.

1902. Hincks, John Murray, Kolar Gold Fields, Mysore State, South India; and Mysore Camp, Manikuppam, South India.

1901. Hislop, George Robertson, Jun., 13 St. James Place, Paisley.

1895. Hockley, Norman Julius, care of Michael Longridge, 12 King Street, Manchester.

1900. Hodgson, George Henry, P.O. Box 616, Sydney, New South Wales.

1898. Hodgson, Richard Broom, 54 Westfield Road, King's Heath, Birmingham.

1901. Hodsdon, George Charles, Messrs. Bryan Donkin and Clench, 55 Southwark Park Road, Bermondsey, London, S.E.

1901. Hogg, John Thallon, Locomotive Department, Government Railways, Durban, Natal.

1901. Holbrow, Charles Anthony, Kalgoorlie, Western Australia.

1902. Holden, Eustace Charles, Messrs. John and Edward Wood, Victoria Foundry, Bolton.

1902. Holland, Bernard Augustus, Messrs. Tannett Walker and Co., Goodman Street Works, Hunslet, Leeds.

1901. Hollick, Aubrey Samuel, South Fambridge, Rochford, Essex.

1899. Hollingsworth, Allen Alexander, Messrs. Henry Bessemer and Co., Carlisle Street East, Sheffield.

1896. Hollingsworth, Edward Massey, St. Helens Corporation Electricity Works, St. Helens, Lancashire.

1899. Holmes, Harry, City Engineer's Office, Birmingham.

1898. Holroyd, Victor Avison, Works Manager, Messrs. Rudge-Whitworth, Coventry; and Royd Lodge, Earlsdon, Coventry.

1901. Hopkinson, Allen Haigh, Messrs. J. Hopkinson and Co., Britannia Works, Huddersfield. [*Hopkinson, Huddersfield.* 169.]

1895. Horner, Joseph Gregory, 17 Vernon Terrace, Twerton-on-Avon, Bath.

1899. Horsnaill, William Owen, Messrs. Crompton and Co., Arc Works, Chelmsford.

1900. Howell, Edwin James, Alliance Electrical Co., 137 Regent Street, London, W.

1899. Hughes, Francis Edward Harold, care of G. T. Harrap, 5 Budge Row, Cannon Street, London, E.C.

1898. Hughes, George Henry, 97 Queen Victoria Street, London, E.C.; and 3 Marischal Road, Lee, Lewisham, London, S.E.

1901. Hughes, George William, care of Alexander Smith, 54 Colmore Chambers, 3 Newhall Street, Birmingham.

1901. Hummel, Horace James Jordan, Pintsch's Patent Lighting Co., 38 Leadenhall Street, London, E.C.

1900. Humphrey-Moore, Montague George Alfred, New River Company, Rosebery Avenue, London, E.C.; and 5 Webster Gardens, Ealing, London, W.

1899. Humphreys, William Henry, Manager, York Water Works, Lendal Hill, York. [42.]

1902. Hunt, Frank, Messrs. R. Hunt and Co., Atlas Works, Earls Colne, R.S.O., Essex.

1899. Hunt, Henry, Messrs. G. J. Worssam and Son, Wenlock Road, City Road, London, N.; and Cotsford, Uplands Park, Enfield.

1900. Hutchinson, Richard John, Chief Engineer, Messrs. Schweppes, West Kensington, London, W.

1898. Inglis, William Rowland Hugh, Brooklands, Eastcote, Pinner, S.O., Middlesex.

1897. Ironside, William Allan, Messrs. Ironside, Son and Co., 1 Gresham Buildings, Guildhall, London, E.C. [*Ironside, London.*]

1897. Irvine, Archibald John, 90 Marchmont Crescent, Edinburgh.

1896. Issigonis, George Demos, The D. Issigonis Works, Smyrna, Turkey in Asia.

1900. Ito, Kumezo, Mitsu Bishi Dockyard and Engine Works, Nagasaki, Japan.

1899. Jackling, Daniel C., Republic Consolidated Gold Mining Co., Republic, Washington, United States.

1898. Jackson, Ernest, Westfield, Cornwall Road, South Tottenham, London, N.

1900. Jackson, Harold Drinkwater, Manager, Messrs. Barr and Stroud, 250 Byres Road, Glasgow; and Westdel, Dowanhill, Glasgow.

1898. Jackson, Harry Loxton, Messrs. Jackson and Brother, Wharf Foundry, Bolton. [*Jackson, Bolton.* 34.]

1898. Jackson, Robert Hiram, Messrs. Schäffer and Budenberg, Whitworth Street, London Road, Manchester; and 90 Elizabeth Street, Cheetham, Manchester.

1898. James, Henry Haughton Rhodes, 13 Victoria Street, Westminster, S.W.

1901. James, Victor Augustus Mesham, 51 Westbourne Park Crescent, Paddington, London, W.

1902. Jarvis, Richard, care of Baron L. Knoop, Maison de la Banque des Marchands, Rue Ilyinka, Moscow, Russia.

1901. Jeffreys, Richard Rice Vesey, care of Resident Engineer, Rhodesia Railways, Bulawayo, Rhodesia, South Africa.

1893. Jenkin, Charles James, Urban District Council, Walton-on-Thames.

1901. Johnson, Frederic Adolph, Secretary, Gisholt Machine Co., Madison, Wisconsin, United States.

1902. Johnson, Frederick Augustus, Castleton Foundry and Engineering Works, Armley Road, Leeds.

1897. Johnson, George, Messrs. Johnson and Fletcher, P.O. Box 580, Bulawayo, Rhodesia, South Africa.

1898. Johnson, Walter Wroe, Castleton Foundry and Engineering Works, Armley Road, Leeds.

1900. Johnston, Charles Morison, Borough Electrical Engineer, Electricity Works, Shrewsbury.

1902. Johnston, Leonard, British Thomson-Houston Co., Manchester Corporation Tramways, Queen's Road Car Sheds, Cheetham Hill, Manchester.

1890. Jones, Arthur Dansey, Locomotive Department, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1900. Jones, Frank Harding, 142 Palace Chambers, 9 Bridge Street, Westminster, S.W.

1901. Jones, Samuel Dawson, Messrs. Tangyes, Cornwall Works, Soho, near Birmingham.

1900. Jones, Stanley Hunter, Commercial Gas Works, Stepney, London, E.

1901. Jones, William Edwin, Messrs. Christison, Jones and Co., 122 New Kent Road, London, S.E.

1889. Joy, Basil Humbert, 85 Gracechurch Street, London, E.C.; and 118 Broadhurst Gardens, West Hampstead, London, N.W.

1899. Joyce, Thomas Walter, Council Offices, Llandudno.

1902. Jukes, Joseph William, Manager, Horsfall Destructor Co., Alexandra Foundry, Kirkstall Road, Leeds.

1902. Keable, Alfred Henry, Engineer's Office, Millwall Docks, London, E.
1901. Keast, James Champion, Camborne Mining School, Camborne.
1900. Keatinge, Sherbrooke Augustus John, Indian State Railways, Lucknow, India.
1901. Keegan, Frank John, Dunlop Pneumatic Tyre Co., Coventry.
1899. Kempt, Alfred Rodney, R.N., 13 Downs Road, Clapton, London, N.E.
1901. Kenrick, Archibald, Jun., Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.
1899. Kensington, John Charlton, Resident Engineer, San Salvador Railway and Works, Astillero, Provincia de Santander, Spain.
1898. Kerr, James B., Clarkson and Capel Steam Car Syndicate, Deverell Street, Great Dover Street, London, S.E.
1900. Kersey, Alfred Thomas John, Swindon and N. Wilts, Technical School, Swindon.
1899. Kershaw, Grindrod, Rochdale Municipal Technical School, Nelson Street, Rochdale.
1897. Ketley, Charles Bosworth, 128 Colmore Row, Birmingham. [*Invent, Birmingham.* 1132.]
1901. Kimber, Harry Watkins, Messrs. Dick, Kerr and Co., 110 Cannon Street, London, E.C.
1901. King, Ernest, Messrs. Mellowes and Co., Corporation Street, Sheffield.
1902. King, Henry James Hubert, Messrs. H. J. H. King and Co., Nailsworth, Stroud, Gloucestershire.
1893. Kirk, Percy Roebuck, Hackney Technical Institute, Cassland Road, London, N.E.
1901. Kitchin, John William, care of Sir John Jackson, Keyham Extension Works, Devonport.
1896. Kitto, William Henry, Morvah, Hartington Road, Grove Park, London, W.
1901. Knight, Arthur Henry, Veile Cotton Spinnery, Veile, Denmark.
1901. Knottesford-Fortescue, John Nicholas, care of E. Anderson, Holford Mills, Perry Barr, Birmingham.
1901. Kortright, Percy Forbes, Messrs. Tannett, Walker and Co., Goodman Street Works, Hunslet, Leeds.
1901. Kremnitz, Harry, Prudential Buildings, Park Row, Leeds.

1897. Lacy-Hulbert, Charles Edward, 25 Victoria Street, Westminster, S.W.
1902. Lampard, Percy, Public Works Department, Simla Provincial Division, Viceregal Lodge, Simla, India.
1895. Larard, Charles Edward, Engineering Department, Northampton Institute, Clerkenwell, London, E.C.
1901. Larkin, Frederick Stanley, Gas Light and Coke Works, Beckton, London, E.

1897. Larmuth, John Hamilton, Messrs. Thomas Larmuth and Co., Todleben Iron Works, Unwin Street, Cross Lane, Salford, Manchester; and 452 Eccles New Road, Weaste, near Manchester.

1898. Larmuth, William Oliver, Messrs. Thomas Larmuth and Co., Todleben Iron Works, Unwin Street, Cross Lane, Salford, Manchester; and Denstone Road, Claremont Estate, Pendleton, Manchester.

1899. Lash, Horatio William, Manager, Albion Works, Sheffield.

1896. Lawson, Harry John, 34 Victoria Street, Westminster, S.W.

1893. Lea, Arthur Henry, Messrs. Lea and Warren, Kettering.

1901. Lea, Frederick Mackenzie, 38 Bennett's Hill, Birmingham. [*Engineer, Birmingham.* 113.]

1901. Leeds, Edward Lambert, Brown Hoisting Machinery Co., 39 Victoria Street, Westminster, S.W.

1897. Leitch, Archibald, 40 St. Enoch Square, Glasgow. [*Tracing, Glasgow.* Royal 5197.]

1898. Leonard, Peter, The Cottage, Crosby, Liverpool.

1901. Lester, John Milner, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.W.; and 3 Hindes Road, Harrow.

1902. Lewenz, Henry Ivan, London Electric Supply Corporation, Stowage Wharf, Deptford, London, S.E.

1901. Lindsay, The Hon. Walter, Mina de S. Domingos, Mertola, Portugal.

1901. Livesey, Robert Martyn, Messrs. Topham, Jones and Railton, H.M. Dockyard Extension, Gibraltar.

1900. Locket, Athol, Jokai Tea Co., Panitola, Dibrugarh, Assam, India.

1895. Longbottom, John Gordon, Glasgow and West of Scotland Technical College, 38 Bath Street, Glasgow.

1900. Longley, Henry Banks, Engineer, Moss Side Urban District Council, Moss Side, Manchester.

1901. Loughborough, Charles, 12 Devereux Road, Wandsworth Common, London, S.W.

1898. Love, Robert Templeton, Royal Bank House, Stewarton, R.S.O., Ayrshire.

1896. Lovell, Samuel George, Stickney, Boston.

1900. Lund, Harry, Messrs. Samuel Lund and Sons, Midland Foundry, Keighley.

1898. Lund, John, Messrs. Ashwell and Nesbit, 12 Great James Street, Bedford Row, London, W.C.

1902. Lupton, Norman Darnton, Messrs. Joshua Buckton and Co., Well House Foundry, Meadow Road, Leeds.

1901. Lyddon, George Edward, 3 Belgrave Road, Ilford.

1901. MacCurrach, Douglas Cochrane, Messrs. Bell Brothers, Clarence Iron Works, Port Clarence, Middlesbrough.

1897. MacIvor, Alexander, Messrs. Potter and Co., Hollins Paper Mills, Darwen.

1901. Mackail, John Henderson, Corporation Electric Supply Station, Dundee.

1902. Macnab, Thomas Pollock, Messrs. Pollock and Macnab, 131–133 Deansgate, Manchester. [*Macnab, Manchester.* Central 4500.]

1901. Main, George Peet, Parade, Leamington.

1900. Main, John Palmer Scott, Assistant Inspecting Officer of Railways, Board of Trade, 1 Whitehall, London, S.W.

1901. Mannock, James Jackson, General Manager, Falcon Iron Works, Oldham. [*Falcon, Oldham.* 352.]

1896. Mansfield, Alfred, Messrs. Mansfield and Sons, 9 Second Line Beach, Madras, India. [*Gaslight, Madras.*]

1899. Mansfield, James Francis, Central London Railway, Shepherd's Bush Depôt, London, W.

1897. Mansfield, Walter, Messrs. Mansfield and Sons, 9 Second Line Beach, Madras, India. [*Gaslight, Madras.*]

1901. March, Sydney Herbert, Messrs. Charles Churchill and Co., 2 Charlotte Street, Mosley Street, Manchester.

1900. Marks, Gordon Cumming, 263 Maidstone Road, Rochester.

1902. Marsden, Alfred, Works Manager, Messrs. Avery and Rawlinson, Oakley Works, Windsor.

1899. Marshall, Launcelot Paul, City Engineer's Office, Guildhall, Norwich.

1900. Marshall, Thomas, 105 Darlaston Road, Pleck, Walsall.

1899. Martin, John, 8 Cumberland Park, Willesden, London, N.W.

1901. Martyn, Sarsfield William, District Asylum, Mullingar, Co. Westmeath, Ireland.

1902. Mascall, Arthur Edward, Ordnance Department, Messrs. William Beardmore and Co., Lancefield Street, Glasgow.

1901. Mason, John William Victor, Messrs. W. F. Mason, 504 Stockport Road, Longsight, Manchester. [*Gasify, Manchester.* Rusholme 68.]

1901. Massé, Robert William Henry Joseph, Charing Cross and Strand Electricity Supply Corporation, 85 Commercial Road, Lambeth, London, S.E.; and 1 Wellington Mansions, West Kensington, London, W.

1900. Massey, Edward, Dallam Forge, Warrington.

1895. Massey, Leonard Fletcher, Messrs. B. and S. Massey, Openshaw, Manchester. [*Masseys, Openshaw.* 300.]

1900. Mate, Walter Edwin, Federated Malay States Railways, Perak, Straits Settlements.

1899. Maw, Henry, 17 Victoria Street, Westminster, S.W.; and 55 Margravine Gardens, West Kensington, London, S.W.

1899. McAll, Henry Wardlaw, care of R. L. McAll, Johns Hopkins University, Baltimore, Maryland, United States.

1899. McBean, John, East Rand Proprietary Mines, P.O. Box 204, Boksburg, Transvaal, South Africa.

1899. McCormack, Arthur John, Messrs. Panhard and Levassor, Lorne Gardens, Hanover Gate, Regent's Park, London, W.

1896. McCormack, William John, Electric Lighting Station, Walthamstow, London, N.E.

1899. McFerran, Howard A., H.M. Office of Works, Storey's Gate, Westminster, S.W.; and 40 Handen Road, Lee, London, S.E.

1894. McGeorge, James, Bombay Burmah Trading Corporation, Rangoon, British Burmah, India.

1902. McGhee, Alexander, Campbell Gas Engine Co., 114 Tooley Street, London, S.E. [*Amentum, London.* Hop 1088.]

1898. McGregor, John, Messrs. Murray and Paterson, Coatbank Engine Works, Coatbridge.

1901. McKerlie, James, Resident Engineer, Strawberry Road Electricity Works, Salford, Manchester.

1900. McLaren, John Alexander, 18 Brudenell Avenue, Leeds.

1891. McMeekin, Adam, Cogry Flax Spinning Mills, Doagh, R.S.O., Co. Antrim, Ireland.

1899. McTaggart, John, Superintendent and Engineer, Ashpit Cleansing and Destructors' Department, Hammerton Street, Bradford.

1900. Meek, George Thomas, Electric Lighting Works, Townmead Road, Fulham, London, S.W.

1897. Meggitt, George Teale, Messrs. Samuel Meggitt and Sons, Hamilton Road, Sutton-in-Ashfield, Nottingham.

1902. Mensforth, Holberry, 11 Valley Road, Spital, Chesterfield.

1895. Messer, Edgar Harrisson, Consolidated Goldfields of South Africa, P.O. Box 1167, Johannesburg, Transvaal, South Africa.

1899. Middleton, Harry Herbert, 30 Dalhousie Square South, Calcutta, India.

1894. Mills, Arthur Edwin, The Channel Dry Docks, Shipbuilding and Engineering Co., Passage West, Co. Cork.

1901. Mills, Frank, Taiping, Perak, Malay States.

1899. Mills, Joseph Amos, Salisbury and Jubilee Gold Mining Co., P.O. Box 1122, Johannesburg, Transvaal, South Africa.

1897. Mills, Samuel James Augustus, Belgrave Mills, Darwen.

1898. Mindo, Arnold Waldemar, Chief Engineer, Gloucester Railway Carriage and Wagon Works, Gloucester.

1893. Mitchell, James Frederick Bruce, Messrs. J. F. B. Mitchell and Co., Mazagon Iron Works, Bombay, India.

1896. Mitton, Thomas Evans, Messrs. Hunt and Mitton, Crown Brass Works, Oozells Street North, Birmingham. [*Mitton, Birmingham.* 394.]

1894. Monckton, Charles John, Phoolultah Tea Estate, Sagurnal Post Office, Sylhet, Assam, India.

1896. Moncrieff, Robert Wighton, The Grange, Stoke Goldington, Newport Pagnel.

1900. Moore, George Edward, 17 Victoria Street, Westminster, S.W.

1902. Moore, Thomas Reade, care of Rev. T. Moore, South Hayling Island, Hants.

1901. Morris, Robert Edmund, New River Water Works, Finsbury Park, London, N.

1898. Morris, William Joseph, Sheepbridge Iron Works, Chesterfield.

1900. Morton, Duncan Anderson, Errol Works, Errol, R.S.O., Perthshire.

1900. Morton, John Henry, United Railways of Havana, Havana, Cuba.

1893. Mountain, Benjamin, South Parade, Leeds.

1899. Muirhead, David, Kirkintilloch, Glasgow.

1898. Munyard, Alfred, 6 Keir Street, Pollokshields, Glasgow.

1894. Murphy, Edward Owen, R.N.R., Messrs. Bailey and Murphy, 17 Praya Central, Hong Kong, China.

1901. Murray, Peter Butchart, Messrs. James Carmichael and Co., Ward Foundry, Dundee.

1900. Naylor, Joe, Messrs. Elkanah Hoyle and Sons, Waterside Works, Halifax.

1901. Naylor, John Alfred, Messrs. Rosser and Russell, 22 Charing Cross, London, S.W. [*Lesorus, London.* Gerrard 5210.]

1899. Neal, Robert Henry Bennett, Bolitho Bank Chambers, Princess Square, Plymouth. [*Output, Plymouth.* 594.]

1900. Neilson, Robert Morrison, Messrs. Marks and Clerk, 25 Cross Street, Manchester.

1899. Nettlefold, Godfrey, Messrs. Nettlefolds, Heath Street, Birmingham. [*Nettlefolds, Birmingham.* 2086.]

1902. Newbigging, John, City Hall, Dublin.

1896. Newell, Ernest, Messrs. Ernest Newell and Co., Stockwith-on-Trent, Gainsborough. [*Woods, Misterton.*]

1902. Newman, William Henry, Totteridge Park, Herts.

1901. Newton, Henry Edward, 231 New Cross Road, London, S.E.

1896. Nicholls, Percy, Oak Villa, Pontefract.

1901. Nichols, Henry Francis, Manager, Messrs. James Hill and Sons, 16 and 18 Currie Street, Adelaide, South Australia.

1894. North, Horace, St. George's Engineering Works, Trafalgar Street, Brighton.

1897. Norton, Arthur, Dunwich, Stanmore Road, Edgbaston, Birmingham.

1899. Norton, Samuel Joseph, Manager, Emlyn Iron and Brass Foundry and Engineering Works, Gloucester. [*Machinery, Gloucester.*]

1899. Oates, Arthur Job, 90 Franchise Street, Wednesbury.

1900. Ockenden, Maurice Albion, Jun., Messrs. Duke and Ockenden, 126 Southwark Street, London, S.E.

1898. Ogden, Cuthbert Charles, 112 St. Edmund's Terrace, Rochdale.

1898. Oldham, Harry George Vincent, Merlewood, Atbara Road, Teddington, S.O., Middlesex.

1900. O'Reilly, Francis Joseph, Locomotive Department, London Brighton and South Coast Railway, Brighton.

1901. Osborn, John Lee, 1 Queen Anne Buildings, 38 Baldwin Street, Bristol.

1899. Osburn, George Victor, Messrs. Topham, Jones and Railton, Gibraltar.

1899. Oswald, George Herbert, Winsley Chase, near Bradford-on-Avon.

1901. Oughterson, George Henry, Ordnance Department, Messrs. Vickers, Sons and Maxim, Naval Construction Works, Barrow-in-Furness; and 40 Blessington Road, Lewisham, London, S.E.

1901. Page, Hugh Algernon, Resident Engineer, The Hydraulic Power Co., Hadland Street, Albion Street, Rotherhithe, London, S.E.

1901. Page, James Handford, 16 Seaton Buildings, 17 Water Street, Liverpool. [*Inspecting, Liverpool.* Central 6204.]

1901. Palmer, Alfred, 61 and 63 Norfolk Street, Sheffield. [1586.]

1900. Palmer, Benedict Joseph, Chief Engineer, Civil Service Supply Association, 136 Queen Victoria Street, London, E.C.

1900. Palmer, Henry Boswell, Jun., Driefontein Consolidated Mines, Boksburg, Transvaal, South Africa: (or 13 Chapter Road, Willesden Green, London, N.W.)

1900. Parker, Frederic George William, Messrs. Le Maitre and Parker, Greek Street Chambers, Leeds. [*Construct, Leeds.* 221.]

1900. Parker, Henry Albert, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.; and 15 South Place, Kennington Park, London, S.E.

1896. Parker, John, Messrs. E. Green and Son, 2 Exchange Street, Manchester.

1900. Parkinson, Ernest, Canal Iron Works, Shipley, Yorks. [*Temples, Shipley.* 4080.]

1901. Parks, Walter Algernon, 46 Queen Victoria Street, London, E.C.

1901. Parr, George Dudley Aspinall, Yorkshire College, Leeds.

1901. Parsonage, William Rawlett, Municipal Technical School, Suffolk Street, Birmingham.

1898. Parsons, Harry, 67 Beechdale Road, Brixton Hill, London, S.W.

1901. Patchett, Joseph Henry, Great Northern and City Railway, Poole Street, New North Road, London, N.

1896. Patel, Motibhai Bhikhabhai, Bhadran, near Borsad, India.

1896. Patel, Raojibhai Motibhai, Under Secretary, Public Works Department, Baroda, India.

1893. Paterson, Robert Mair, 18 Wentworth Mansions, Hampstead Heath, London, N.W.

1900. Payne, Henry, University College, Gower Street, London, W.C.

1899. Pearce, Standen Leonard, Corporation Electric Light Station, Dickinson Street, Manchester.

1901. Peckett, Arthur, Hyde Lodge, Durdham Down, Bristol.

1898. Pedley, Heber Isaac, Messrs. Rudge-Whitworth, Rea Street South, Birmingham.

1896. Pendred, Loughnan St. Lawrence, 33 Norfolk Street, Strand, London, W.C.

1901. Percy, Frank, Messrs. Wood and Gee, Barley Brook Foundry, Wigan.

1901. Peregrine, William Henry, Rochdale Technical School, Rochdale; and Manchester Road, Bury, Lancashire.

1901. Perkins, William John, 17 Victoria Street, Westminster, S.W.

1893. Pertwee, Herbert Arthur, Nelson Iron Works, Great Yarmouth.

1894. Peters, Lindsley Byron, Messrs. G. D. Peters and Co., Moorgate Works, Moorfields, London, E.C. [*Peters, London.*]

1900. Petter, Ernest Willoughby, Messrs. James B. Petter and Sons, 73 Queen Victoria Street, London, E.C. [*Escapable, London.* Bank 973.]

1899. Petter, Percival Waddams, Works Manager, Messrs. James B. Petter and Sons, Nautilus Works, Yeovil. [*Petter, Yeovil.*]

1902. Pettit, Arthur Edward, Simmer and Jack East, P.O. Box 47, Germiston, Transvaal, South Africa.

1898. Phillipps, John, Cornubia House, Carlton Road, Nottingham.

1897. Phillips, Edwin Grant, Messrs. Jackson and Phillips, Conde de Aranda 1, bajo, Madrid, Spain.

1899. Phillott, George Henry, 13 Promenade, Cheltenham.

1902. Philpot, Harold Percy, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1900. Pickering, Frank, Electric Light Department, Cape Government Railways, Cape Town, Cape Colony.

1899. Pigott, Arthur, Babcock and Wilcox Co., 14 Deansgate, Manchester.

1899. Pilling, Frederick Stott, 1 Trafalgar Place, Devonport.

1901. Pinkney, Thomas Samuel, Messrs. B. Akopoff and Co., Baku, Russia.

1891. Pirrie, John Barbour, Barn Flax Spinning Mills, Carrickfergus, Co. Antrim, Ireland.

1900. Plant, David Thomas, H.M. Dockyard, Portsmouth.

1898. Platts, William, Messrs. George Turton, Platts and Co., Savile Street, Sheffield. [*Buffer, Sheffield.*]

1897. Player, Ralph, Messrs. Joseph Wright and Co., 124 Victoria Street, Westminster, S.W.

1901. Pointon, John Edward, Messrs. Lewis and Pointon's Panification, Wellington, Salop.

1896. Pollard, Lieutenant Ferdinand Joseph, No. 5 Company, Railway Pioneer Regiment, 22 Atkinson Buildings, Cape Town, Cape Colony.

1897. Porter, Stanley William, 32 Queen Victoria Street, London, E.C.

1900. Pott, George Tom, Engineering Department, Lagos Government, Lagos, West Africa; and 7 Curzon Road, Southport.

1895. Powell, Benjamin Newton, Manager, Lidgerwood Manufacturing Co., Soerabaya, Java: (or care of C. T. Powell, Cherry Street, Birmingham.)

1900. Powell, David Thomas, care of Dr. Alexander B. W. Kennedy, 17 Victoria Street, Westminster, S.W.

1899. Powell, Ernest Brecon, Messrs. Whitehead and Co., Portland Harbour Torpedo Works, Weymouth.

1899. Powrie, William Lyall, Messrs. Furnival and Co., 32 St. Bride Street, London, E.C.

1898. Prance, Cyril Rooke, The Priory, Mansfield Woodhouse, Mansfield.

1901. Prestwich, John Alfred, 1 Lansdowne Road, Tottenham, London, N.

1897. Price, Charles Graham, care of Messrs. Syme and Co., Singapore, Straits Settlements.

1900. Price, Rowland, Wellington Cordite Factory, Coonoor, Madras, India.

1899. Price, William Frederick, Callender's Cable and Construction Co., Oldham Place, Renshaw Street, Liverpool.

1901. Pritchard, Roger Cromwell, Messrs. Callender's Cable and Construction Co., Belvedere, S.O., Kent; and 55 Highbury New Park, London, N.

1899. Prockter, Frederick Malcolm, Beaverstown House, Donabate, County Dublin.

1900. Prockter, George Harold, R.N.R., Cunard Steamship Co., Derby Road, Liverpool; and The Grange, Duke Street, Southport.

1901. Pryor, Henry Allen, Messrs. Mewburn, Ellis and Pryor, 70 and 72 Chancery Lane, London, W.C. [*Patent, London.* Holborn 243.]

1899. Pugh, John Vernon, 34 Spon Street, Coventry.

1900. Purves, William Thompson, 47 York Place, Edinburgh. [1259.]

1901. Pye, Joseph Harger, Manager, Gas Works, Clevedon.

1899. Quilter, Frederic Russell, Palace Chambers, Westminster, S.W.

1899. Radley, Bertram Vernon, East Indian Railway, Jamalpur, Bengal, India.

1901. Rainforth, William Frederick, Works Manager, Messrs. Edwin Danks and Co., Oldbury Boiler Works, Birmingham.

1894. Raleigh, Charles, 58 Chancery Lane, London, W.C.

1899. Rapson, Josiah Trevor, Wolesley Tool and Motor Car Co., Adderley Park, Birmingham.

1901. Rasey, Alfred Ernest, City and South London Railway Extension, 7 Denman Street, London, S.E.; and 7 St. Mary's Road, Harlesden, London, N.W.

1896. Rayner, Harry Stafford, Sir W. G. Armstrong, Whitworth and Co., Ashton Road, Openshaw, Manchester.

1899. Read, George Henry, National Cash Register Co., 124 Oxford Street, London, W.

1899. Redding, Walter, 72 Markham Avenue, Roundhay Road, Leeds.

1892. Redfern, Charles George, 4 South Street, Finsbury, London, E.C. [*Invention, London.* Avenue 691.]

1902. Reid, John Wilson, Westinghouse Brake Co., 82 York Road, King's Cross, London, N.; and 5 Grove Road, New Southgate, London, N.

1901. Reynolds, Alfred Milward, Messrs. John Reynolds and Sons, Crown Nail Works, Newtown Row, Birmingham.

1899. Richardson, John Robert, Messrs. Robey and Co., Globe Iron Works, Lincoln.

1900. Riches, Carlton Tom Hurry, Sir Alexander Rendel and Co., 8 Great George Street, Westminster, S.W.; and 8 Park Grove, Cardiff.

1893. Richey, William Frederick Albert, Messrs. Chance Brothers and Co., Lighthouse Works, near Birmingham.

1895. Ridley, Clarence Oliver, Sir W. G. Armstrong, Whitworth and Co., 8 Great George Street, Westminster, S.W.

1892. Ridley, James Cartmell, Jun., Swalwell Steel Works, Newcastle-on-Tyne.

1896. Rieter, E. Henry, Continentale Gesellschaft für angewandte Electricität, Landeck, Tyrol.

1901. Ritchie, Thomas Edward, Messrs. Royce, Cooke Street, Hulme, Manchester.

1901. Riviere, Philip Lyle, Messrs. Kennedy and Jenkin, 17 Victoria Street, Westminster, S.W.

1899. Roberts, Basil Owen, care of T. H. Douglas, The Bank, Coldstream.

1893. Roberts, Charles Thomas, Salisbury, Rhodesia, South Africa.

1899. Roberts, Percy Roper, P.O. Box 31, Salisbury, Rhodesia, South Africa.

1901. Robinson, Herbert, 2 Brunswick Terrace, Low Moor, Bradford.

1901. Robinson, Leonard Leslie, Borough Electrical Engineer, Hackney Electricity Works, Millfields Road, Clapton, London, N.E.

1901. Robinson, Sydney Greenwood, Messrs. F. L. Smidth and Co., Palace Chambers, 9 Bridge Street, Westminster, S.W.

1899. Rochat, Henri Louis, 3 and 4 Hare Street, Calcutta, India.

1901. Rock, James Parthenay, Messrs. G. J. Worssam and Sons, Wenlock Road, City Road, London, N.

1898. Rodda, Joseph Tonkin, Water Works Superintendent, 14 Seaside Road, Eastbourne.

1900. Rofe, William, 8 Victoria Street, Westminster, S.W.

1897. Rogers, William Ivy, Manager, Bard Cycle Co., Barn Street, Birmingham. [*Minstrel, Birmingham.* 1147.]

1897. Rolf, George, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne; and 8 Bentinck Crescent, Newcastle-on-Tyne.

1901. Rose, Sydney Durrant, Messrs. Cottrell, Rose and Co., Eddington Iron Works, Hungerford. [*Cottrell, Hungerford.*]

1899. Rosevere, Gerald Rhodes, Britannia Railway Carriage and Wagon Works, Saltley, Birmingham.

1900. Rosevere, Reginald George, Locomotive Department, Midland Railway, Derby.

1895. Ross, Ernest Sydney, Chief Inspector of Machinery, Public Offices, Hobart, Tasmania.

1901. Ross, Frederick George, Essendine, Poole Road, Wimborne.

1894. Rossiter, James Thomas, Mobberley, Grove Park Gardens, Chiswick, London, W.

1884. Roux, Paul Louis, 54 Boulevard du Temple, Paris.

1901. Rowe, Frank Lander, Manager, Edwards' Air Pump Syndicate, 3 and 5 Crown Court, Old Broad Street, London, E.C. [*Management, London.* Avenue 152.]

1899. Rowe, John, 1 Dean Villas, Camborne.

1901. Rudder, Frank Percy, Darien Gold Mining Co., Cana Mines, Republic of Colombia, South America; and 4 Chapel Walks, Manchester.

1896. Ruffle, Frank Felingham, care of Messrs. Ralli Brothers, Calcutta, India.

1901. Rushton, James Lever, Messrs. Dobson and Barlow, Kay Street Machine Works, Bolton.

1901. Rushworth, George William, 50 Brown Street, Colne.

1895. Russell, Frederick, Manager, Gas Works, Bexhill-on-Sea.

1899. Russell, Hubert, Engineer, Gas Works, Holmfirth, Huddersfield.

1901. Russell, William Russell, Locomotive Department, Great Western Railway, Mill Bay Station, Plymouth.

1897. Ruthen, Charles Tamlin, Bank Chambers, Heathfield Street, Swansea.

1897. Rycroft, John Edward, Engineering Department, Technical College, Bradford.

1901. Ryder, George Albert, Messrs. Thomas Ryder and Son, Turner Bridge Iron Works, Tonge, Bolton.

1901. Saccaggio, Pietro Celestino, Sola Works, Ferro Carril del Sud, Buenos Aires, Argentine Republic.

1894. Salis, Henry Rodolph de, Ivy Lodge, Iver Heath, near Uxbridge.

1897. Sanders, George, Oaklands, Biddulph, Congleton.

1902. Sandford, John, 25 Netherton Road, St. Margaret's, Twickenham.

1896. Sangster, Charles, Works Manager, Cycle Components Manufacturing Co., Bournbrook, Birmingham.

1901. Sawyer, Charles Payne, Messrs. Thomas Turton and Sons, Sheaf Works, Sheffield.

1896. Scanlan, Horace Edward, Beaconsfield, Longfleet, Poole.

1893. Schloesser, Robert, Government Inspector of Mines, Cobar, New South Wales: (or care of Adolf Schloesser, 185 Sutherland Avenue, London, W.)

1902. Schontheil, Theodore, 34 Talbot Street, Cardiff.

1900. Schutte, Francis Albert, Semaphore House, Claygate, Esher.

1902. Scott, Henry, 170 Hereford Street, Christchurch, New Zealand.

1897. Scott, Newton L., Kodak Works, Harrow.

1899. Scott, Robert, Superintendent Engineer, Lace Diamond Mining Co., Kroonstad, Orange River Colony, South Africa.

1901. Scott, Thomas, 20 Commercial Road, Durban, Natal.

1900. Seabrook, Arthur Hugh, Engineer and Manager, Municipal Electricity Works, Barking.

1899. Secchi, Leopold, Sir W. G. Armstrong, Whitworth and Co., 8 Great George Street, Westminster, S.W.: and 62 Carminia Road, Balham, London, S.W.

1893. Segundo, Edward Carstensen de, 28 Victoria Street, Westminster, S.W.

1892. Seymour, William Frederick Earl, H.M. Inspector of Factories, 39 Victoria Street, Westminster, S.W.

1901. Shadwell, Lancelot Horace Augustus, Harbour Works, Durban, Natal.

1901. Shaw, George, care of R. L. Caryl Roberts, The Manor House, Cleobury Mortimer, S.O., Salop.

1901. Shaw, Irvine, 5 Eastmount Terrace, Haughton Road, Darlington.

1900. Shaw, William Campbell, 55 Bouverie Street, Chester.

1899. Sheffield, Frederick Gerard, 68 Sydney Street, South Kensington, London, S.W.

1901. Sheffield, Thomas William, British Thomson-Houston Co., Trevelyan Buildings, Corporation Street, Manchester. [*Helix, Manchester.* 4160.]

1899. Shiba, Chuzaburo, Engineering College, Imperial University, Tokyo, Japan.

1897. Shirtliff, Frederick, Messrs. Burn and Co., Howrah, Bengal, India.

1900. Simpson, Donald Grafton, Trafalgar Works, Barbados, West Indies.

1900. Simpson, Lightly Stapleton, Great Eastern Railway, Stratford, London, E.

1901. Simpson, Norman De Lisle, Resident Engineer, Bournanston Pumping Station, Water Works Department, Barbados, West Indies.

1898. Simpson, Stephen, Messrs. Willey and Co., James Street Works, Exeter; and Tregear, Exeter.

1901. Simpson, Walter, Manager, English Industrials, 55 Market Street, Manchester. [*Comparison, Manchester.* 3999.]

1899. Sirri, Lieutenant M., Engineering Department, Imperial Naval Arsenal, Constantinople.

1899. Slingsby, Walter, 22 York Terrace, Akroydon, Halifax.

1902. Smail, Charles George, Works Manager, Automatic Motor and Cycle Pump Co., Stains Road, Sunbury-on-Thames.

1901. Smeeton, John Alfred, care of Arthur Koppel, 27 Clements Lane, London, E.C.

1901. Smith, Adam, Messrs. Bryan Donkin and Clench, Lincoln Works, Chesterfield.

1901. Smith, Alfred, Manager, Messrs. Daniel Smith and Co., Castle Iron Works, Raglan Street, Wolverhampton. [*Presses, Wolverhampton.* 210.]

1899. Smith, Francis Sumner, 13 Elsham Road, Kensington, London, W.

1900. Smith, Frederick Hardcastle, Steam Crane Works, Old Foundry, Rodley, near Leeds.

1899. Smith, Frederick Hugh, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1898. Smith, Herbert William, Works Manager, Messrs. Sydney Smith and Sons, Basford Brass Works, Nottingham; and Gordon Lodge, Easthorpe, Ruddington, Nottingham.

1902. Smith, Hugh Leslie, Dynamo Department, Messrs. Siemens Brothers and Co., Woolwich.

1900. Smith, John Bucknall, Oswaldestre House, 34 Norfolk Street, Strand, London, W.C.; and 90 Wickham Road, St. John's, London, S.E.

1900. Smith, John Smart, Harbour Engineer's Office, Aberdeen.

1891. Smith, Joseph Philip Grace, Polytechnic School of Engineering, 309 Regent Street, London, W.; and 8 Knatchbull Road, Willesden, London, N.W.

1901. Smith, Lionel Lincoln, Royal Laboratory, Royal Arsenal, Woolwich.

1900. Smith, Montague Howard, The Bourne Engineering Co., 19 and 21 Queen Victoria Street, London, E.C.

1897. Smith, Sidney, Messrs. George Findlay and Co., Church Square, Cape Town, Cape Colony.

1898. Smith, Thomas John, Cannon Street, Hanley, Staffordshire.

1894. Smith, William Arthur, Midland Arches, Northampton; and 18 Albion Place, Northampton. [*Machinery, Northampton.*]

1901. Smyth, John McFall, Borough Electrical Engineer, Municipal Electricity Works, Keighley.

1901. Smyth, William Miller Campbell, British Luxfer Prism Syndicate, 16 Hill Street, Finsbury, London, E.C. [*Luxfer, London.* London Wall 90.]

1898. Snow, John, Manager, Tasker's Engineering Co., New Station Road, Sheffield. [*Tasker, Sheffield.* 1005.]

1899. Somerville, Frederick Herbert, Messrs. Crompton and Co., Arc Works, Chelmsford.

1899. Speight, James William, Corporation Electricity Works, Blackpool.

1901. Spencer, Arthur Lincolne Hitchcock, Manager, Messrs. W. H. Spencer and Co., Hitchin. [*Engine, Hitchin.* 5.]

1897. Spencer, Henry Wilmot, Ivy Thorn, Station Road, Hendon, London, N.W.

1899. Spencer, Perceval, 5 Albert Terrace, Old Trafford, Manchester.

1901. Spencer, William Edward Spencer Hitchcock, Metropolitan Electric Supply Co., Lincoln's Inn Fields, London, W.C.; and St. Margaret's, Hitchin.

1899. Spiller, Claude, 2 St. Mary's Road, Canonbury, London, N.

1901. Spiller, William Onsild, Automobile Supply Co., 56 Broad Street, Birmingham.

1901. Sprunt, Herbert William, Engineer-in-Chief, South London Electric Supply Corporation, Bengeworth Road, Loughborough Junction, London, S.E.

1900. Squire, George Frederick, Messrs. Yarrow and Co., Isle of Dogs, Poplar, London, E.

1901. Stanier, William Arthur, Great Western Railway Works, Swindon.

1902. Starley, Richard, Works Manager, Rover Cycle Co., Meteor Works, Coventry.

1898. Statham, Frederick Benjamin, 85 West George Street, Glasgow.

1900. Statham, Harry, 33 Rectory Road, Crumpsall, Manchester.

1900. Steel, Thomas John, Messrs. Fawcett, Preston and Co., 17 York Street, Liverpool.

1899. Steinmetz, Arthur Samler Bernard, Messrs. West and Steinmetz, Commercial Road Foundry, Bedford. [*Castings, Bedford.*]

1902. Stenning, Hugh Walter, Locomotive Superintendent, Soudan Military Railways, Shendy, Soudan, Egypt.

1899. Stephens, Charles Robert, Manager, Messrs. Stephens and Son, Ashfield, Falmouth. [*Stephens, Falmouth.* 10.]

1901. Stephens, Hilliard, 39 Victoria Street, Westminster, S.W. [*Stahlwerk, London.*]

1900. Stephenson, Alfred, 96 Tennyson Place, Otley Road, Bradford.

1899. Stevens, Edwin Charles, Messrs. Archibald Smith and Stevens, Janus Works, Queen's Road, Battersea, London, S.W. [*Hydraulics, London. Battersea* 115.]

1902. Stirling, John Alexander Maxwell, South Indian Railway, Trichinopoly, South India.

1896. Stobart, Henry Gervas, Wolsingham Steel Works, Wolsingham, near Darlington.

1899. Stocks, Harry Benwell, 118 High Road, Willesden Green, London, N.W.

1898. Stockton, Cecil, 221 Cumberland Street, Brooklyn, New York, United States.

1901. Stokes, John Thomas, H.M. Office of Works, Storey's Gate, Westminster, S.W.; and Coningsby, Disraeli Road, Putney, London, S.W.

1901. Stones, William Grimshaw, 10 Richmond Terrace, Blackburn. [171.]

1901. St. Paul, Clarence, Messrs. St. Paul and Dadina, Graham's Buildings, Bombay, India.

1901. Strathern, Alexander George, Strathern's Weldless Chains, Gartsherrie, N.B.

1900. Strong, Alfred George, Messrs. H. O. Strong and Co., Norfolk Works, St. Paul's, Bristol. [*Omega, Bristol.* 289.]

1901. Stubbs, Herbert, Manual Instruction Department, Higher Grade School, Wolverhampton.

1898. Suffield, Charles Augustus, Birmingham Corporation Water Works, Elan Valley, Rhayader.

1897. Suffield, Frank Wilson, Glen Lyn, Grove Avenue, Moseley, Birmingham.

1901. Summerfield, Richard Dunning, Belmont, Empress Road, Derby.

1902. Sumner, Leonard, Broughton Copper Co., Manchester. [*Copper Co., Manchester.* 638.]

1900. Sutcliffe, Edgar Rouse, Noble Terrace, Armley, Leeds.

1896. Sutherland, James, Manager, Alumina Factory, Larne Harbour, County Antrim, Ireland. [*Aluminium, Larne Harbour.*]

1894. Sutton, Hugh Reginald, Messrs. Mackies, Berks Iron Works, Caversham Road, Reading. [*Mackies, Reading.* 86.]

1901. Swaine, Albert Tom, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1896. Swallow, John, Messrs. W. Neill and Son, Bold Iron Works, St. Helens Junction, Lancashire. [*Neill, St. Helens.* 20.]

1887. Tabor, Edward Henry, Fennes, Braintree.

1893. Takatsuji, Narazo, Superintending Engineer, Calico Weaving Mill, Osaka, Japan.

1895. Takimura, Takeo, General Manager, Osaka Cotton Mill, Osaka, Japan.

1893. Talbot, Frederick William, Engineer and Manager, Water Works, Frimley Green, Farnborough, Hants.

1897. Talbot, William John, Messrs. John Russell and Co., Alma Tube Works, Walsall.

1901. Tatham, James Ernest, Intensified Gas Light Co., 3 Wilson Street, Drury Lane, London, W.C. [*Intense, London.*]

1899. Taverner, Herbert Lacy, 12 Mosley Street, Newcastle-on-Tyne. [*Freezing, Newcastle-on-Tyne.*]

1897. Taylor, Arthur Joseph, 6 Apsley Crescent, Manningham, Bradford.

1900. Taylor, Charles Percy, Messrs. Knight, Bevan and Sturge, Northfleet, Kent.

1898. Taylor, Edward, Jun., Messrs. Thomas and Taylor, 80 Lower Hillgate, Stockport.

1901. Taylor, Tom, Chief Engineer, Messrs. C. Townsend, Hook and Co., Snodland, S.O., Kent; and Millbrook House, Snodland, S.O., Kent.

1899. Tennant, William John, Messrs. Boult, Wade and Kilburn, 111 Hatton Garden, London, E.C.

1893. Tenney, Dennis, Messrs. Bailey, Walker and Co., 302 Calle Balcarce, Buenos Aires, Argentine Republic.

1899. Tester, William Andrews, Borough Electrical and Tramways Engineer, Corporation Electricity Works, Lancaster.

1898. Thain, William Arthur, University College, Cardiff.

1901. Thom, Frank, Messrs. Yates and Thom, Canal Foundry, Blackburn.

1901. Thomas, Arthur Lloyd, Town Hall Chambers, Pontypridd.

1899. Thomas, Hubert Robert, Messrs. Edwin Richards and Sons, Portway Works, Wednesbury.

1900. Thomas, John Frederick Ivor, care of Dr. Alexander B. W. Kennedy, 17 Victoria Street, Westminster, S.W.

1899. Thomas, Owen Powell, 25 Lee Terrace, Blackheath, London, S.E.

1901. Thomas, Walter Frederick, 110 Inkerman Street, Vauxhall, Birmingham.

1901. Thompson, Frederick Wilberforce, Corporation Electricity Works, Islington, London, N.; and 23 Wray Crescent, Tollington Park, London, N.

1897. Thompson, Herbert, Messrs. Thompson Brothers, 111 Carver Street, Sheffield.

1896. Thompson, Thomas, Rassendyll, Chatsworth Road, Croydon.

1901. Thomson, David Lockerbie, Nickerie, Dutch Guiana.

1894. Thomson, Henry, Engineer, Cawnpore Woollen Mills, Cawnpore, India.

1901. Thomson, James Cunningham, Messrs. Collins and Co., Tientsin, North China.

1893. Thomson, James Watson, Robert Gordon's College, Aberdeen.

1899. Thornycroft, John Edward, Messrs. John I. Thornycroft and Co., Church Wharf, Chiswick, London, W. [*Thornycroft, London.* 7306.]

1901. Thorpe, Wilfred Bertram, Charing Cross and Strand Electricity Supply Corporation, 15 Maiden Lane, Covent Garden, London, W.C.

1895. Threlfall, George, Messrs. Chance and Hunt, Chemical and Cement Works, Oldbury, Birmingham.

1893. Tomes, William Jameson, District Locomotive Superintendent, East Indian Railway, Jamalpur, Bengal, India: (or care of Joshua Tomes, Croft House, Clacton-on-Sea.)

1900. Tottle, Edward George, Works Manager, Wicks Rotary Type Casting Co., Willesden Junction, London, N.W. [*Enargite, London.* Harlesden 15.]

1902. Townend, Sidney, Oak Lea, Church Road, Shortlands, Bromley, Kent.

1900. Townsend, William, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.

1896. Trafford, Alfred, General Electric Co., Peel Works, Salford, Manchester.

1901. True, Robert Arthur, Works Manager, Messrs. Barford and Perkins, Queen Street Iron Works, Peterborough.

1899. Trunchion, William Thomas Fawdon, Messrs. Grafton and Co., Vulcan Works, Bedford.

1900. Turner, Frederick William, Messrs. E. R. and F. Turner, St. Peter's Iron Works, Ipswich. [*Gippeswyk, Ipswich.*]

1893. Turner, Henry Arthur, care of Arthur Koppel, 27 Clement's Lane, London, E.C.

1900. Turner, William, Messrs. Davidson and Co., 115 Hope Street, Glasgow.

1902. Turpin, William Alfred, Messrs. Panhard and Levassor, Willesden Lane, Kilburn, London, N.W.

1901. Unwin, Maurice Everett, Messrs. John Brown and Co., Sheffield.

1901. Urmston, Peter, Danelova Manufactur, Moscow, Russia.

1898. Urquhart, Ridley James, 57 Barton Arcade, Manchester. [*Kinetis, Manchester.*]

1900. Venning, Albert John, Assistant Engineer R.N., St. Feock, Devoran, R.S.O., Cornwall.

1900. Venning, Thomas Arnold, R.N., St. Feock, Devoran, R.S.O., Cornwall.

1896. Vernon, William Harry, Messrs. E. Green and Son, Wakefield.

1892. Vezey, Albert Edward, 682 Rotherhithe Street, London, S.E.

1900. Vigers, George Alexander, Palace Chambers, 9 Bridge Street, Westminster, S.W.

1900. Vines, Charles Granville, Borough Electrical Engineer, Kimberley, South Africa; and Kimberley Club, Kimberley, South Africa.

1901. Visick, Charles, Works Manager, Messrs. W. Visick and Sons, Basset Works, Devoran, Cornwall.

1902. Wade, Francis Richard, Messrs. Dalton and Wade, 146 Spon Street, Coventry. [*Daw, Coventry.* 53.]

1901. Walford, Frederick, Behar School of Engineering, Bankipur, India.

1901. Walkem, George Alexander, Manager, Vancouver Engineering Works, Vancouver, British Columbia.

1901. Walker, Alfred, Municipal Technical Institute, Romford Road, West Ham, London, E.

1893. Walker, Charles Christopher, Nether House, Ranmoor, Sheffield.

1901. Walker, Robert, Messrs. John Musgrave and Sons, Globe Iron Works, Bolton.

1901. Walker, Robert Hugh, Manager, Neuchatel Asphalte Co., Travers, Neuchatel, Switzerland.

1899. Walker, William Peto, Vacuum Brake Co., 32 Queen Victoria Street, London, E.C.

1901. Waller, William, 28 to 32 Vauxhall Walk, London, S.E. [*Stampings, London.* Hop 1423.]

1901. Walsh, Thomas, 33 Glen Eldon Road, St. Anne's-on-Sea, R.S.O., Lancashire.

1898. Ward, Frederick Arthur, 10 Bellevue Park, Belfast.

1897. Ward, John Cecil, 52 Queen Victoria Street, London, E.C. [*Allentars, London.* Bank 657.]

1900. Ward, Joseph Philip, Public Works Department, Eshowe, Zululand, South Africa.

1900. Warden-Stevens, Frederic J., 34 Victoria Street, Westminster, S.W.

1901. Wardle, Frank Harold, Electricity Department, Nottingham Corporation, Talbot Street, Nottingham.

1892. Warton, Richard George Frank, Kopje Post Office, Salisbury, Rhodesia, South Africa: (or care of C. H. Gardiner, 24 Grosvenor Terrace, York.)

1895. Wasdell, Abel, Superintendent, Water Works, Allahabad, India.

1894. Wasdell, Thomas, Belmont Villas, Woodside Street, Cinderford, R.S.O., Gloucestershire.

1900. Watson, Richard, Charing Cross and Strand Electricity Supply Corporation, 85 Commercial Road, Lambeth, London, S.E.

1898. Waugh, Hylton Norman Drake, Locomotive Department, London Brighton and South Coast Railway, Brighton.

1897. Waynforth, Harry Morton, King's College, Strand, London, W.C.

1901. Weaver, Henry James, Borough and Waterworks Engineer, Town Hall, King's Lynn.

1901. Webb, John Frederick, General Manager, Thames Mining Machinery Co., 63 Queen Victoria Street, London, E.C. [*Suboctave, London.* Bank 5740.]

1900. Wellington, John Morecraft, 3 Hemberton Road, Clapham, London, S.W.

1893. Wells, Sidney Herbert, Principal, Battersea Polytechnic Institute, Battersea, London, S.W.

1899. West, Haarlem Ethneen, Snowshoe Mine, Libby, Montana, United States.

1902. West, William Pownoll, Mina Demetrio, Alcaracejos, Provincia de Cordoba, Spain.

1899. Weston, George Cambridge, Kensington and Knightsbridge Electric Lighting Co., Albert Vaults, Prince Consort Road, South Kensington, London, S.W.

1897. Whale, Ralph Abrahams, Hampton Road, Pitsmoor, Sheffield.

1899. Wheeler, George Uzziah, Beaconsfield, Hamilton Road, Boscombe, Bournemouth.

1899. Wheeler, Oswald, 37 Victoria Road, Darlington.

1902. Whichello, Richard Edward, Messrs. Martin and Co., Jackson House, Calcutta, India.

1900. White, Daniel Hubert, London United Tramways, 88 High Road, Chiswick, London, W.; and 3 Wilton Villas, Chiswick Lane, London, W.

1899. Whitehead, James Peter, Messrs. John M. Sumner and Co., 2 Brazennose Street, Manchester.

1899. Whitehouse, Alfred, Works Manager, New Rapid Cycle Co., Pope Street, Birmingham.

1902. Whitelock, William Henry, Messrs. Willoughby Brothers, Rendle Street, Plymouth.

1898. Wigglesworth, Frank, Messrs. Croft and Perkins, Great Northern Works, Bradford.

1895. Wild, Adamson George, care of W. S. Laycock, Victoria Street Works, Sheffield.

1893. Wilkins, George Cornelius, 82 Harrison Street, Barrow-in-Furness.

1900. Williams, Arthur, Apartado 930, Mexico City, Mexico.

1892. Williams, Arthur Edward, Emscote Mills, Warwick.

1900. Williams, Charles Edward, Messrs. Robert Stephenson and Co., Locomotive Works, Darlington.

1901. Williams, David Thomas, Bryn-Mor, Boverton Road, Llantwit Major, Cardiff.

1899. Williams, Hal, Messrs. Adams and Williams, 60 Queen Victoria Street, London, E.C. [*Viburnum, London.* Bank 6006.]

1899. Williams, John Ellacott, Metropolitan Electric Supply Co., Acton Lane, Willesden, London, N.W.; and Linacre, 37 Burgoyne Road, Harringay, London, N.

1900. Williams, Walter Doel, Messrs. Barry and Higham, 15 Great George Street, Westminster, S.W.

1899. Williamson, Edward, Messrs. W. Williamson and Co., Milborne Street, Well Street, Hackney, London, N.E. [*Washing Machines, London.*]

1900. Willis, Edward, Willesden District Council, Public Offices, Dyne Road, Kilburn, London, N.W.

1898. Wilson, Daniel Ellis, P.O. Box 152, Cairo, Egypt.

1898. Wilson, John Charles, Messrs. Guest and Chrimes, Rotherham; and Foston House, Doncaster Road, Rotherham.

1901. Wilson, Richard Dawes, 2 Ennerdale Road, Kew Gardens, Surrey.

1902. Wingate-Saul, Arthur Wingate, Messrs. Willans and Robinson, Victoria Works, Rugby.

1900. Winlaw, William Willoughby, Messrs. Vickers, Sons and Maxim, Naval Construction Works, Barrow-in-Furness.

1901. Winstanley, Frank Atherton, Chief Engineer, Rotherham Corporation, Frederick Street, Rotherham.

1902. Winstanley-Wallis, Tacy Millett, Messrs. J. H. Holmes and Co., 17 Soho Square, London, W.

1896. Winston, Harold Holmes, Messrs. Waterlow and Sons, Finsbury, London, E.C.

1896. Wiseman, Alfred, 138 and 140 Conybere Street, Birmingham. [*Verus, Birmingham.* 3784.]

1898. Wolff, Charles Ernest, 96 Midland Road, Bedford.

1900. Wood, Charles, 6 Craven Street, City Road, London, E.C.

1900. Wood, William Howorth, Messrs. H. Eckstein and Co., P.O. Box 149, Johannesburg, Transvaal, South Africa.

1901. Woodger, Peter Bisset, 190 Westgate Road, Newcastle-on-Tyne.

1900. Woodhouse, William Bradley, Electric Power Station, Neptune Bank, Wallsend-on-Tyne.

1897. Worsley, Philip John, Jun., Messrs. Nettlefolds, Smethwick, Birmingham.

1895. Wort, Walter Edward, Claremont, Vicarage Road, Teddington, S.O., Middlesex.

1900. Wright, Ernest, The Willows, Harlesden, London, N.W.

1901. Wright, Frank, Works Department, H.M. Dockyard, Malta: (or 19 St. Charles Square, North Kensington, London, W.)

1889. Wright, Howard Theophilus, Sir Hiram Maxim Electrical and Engineering Co., 65 Gracechurch Street, London, E.C.

1900. Wright, Isaac Henry, Technical Institute, Keighley; and 15 Gladstone Street, Keighley.

1900. Wright, Richard Oliver, Henley's Telegraph Works, North Woolwich, London, E.

1898. Wrinch, Hugh Edward Hart, Engineer's Office, Chelsea Water Works, Surbiton.

1900. Wyld, William, Borough Electrical Engineer, Corporation Electricity Works, Grey Friars Road, Doncaster.

1898. Wyman, Ronald, Messrs. Nettlefolds, Castle Works, Tydu, near Newport, Monmouthshire.

1901. Yardley, William Henry, Messrs. Carr, Lockwood and Co., Princeps Works, Matilda Street, Sheffield.

1899. Yeames, James Lamb, Messrs. Workman, Yeames and Co., Ravenhill Avenue, Belfast.

1899. Young, Henry John, Messrs. H. Young and Co., Eccleston Iron Works, Pimlico, London, S.W.

1900. Young, Henry Wilson, 12 Camomile Street, London, E.C.

1901. Young, Horatio Edwin, Messrs. William Whiteley and Sons, Prospect Iron Works, Huddersfield; and 89 Lockwood Road, Huddersfield.

1899. Young, William, Engineer, London County Asylum, Sutton, Surrey.

ASSOCIATES.

1900. Allen, Clarence Edgar, 48 Temple Chambers, Embankment, London, E.C.
1880. Allen, William Edgar, Imperial Steel Works, Tinsley, Sheffield.

1881. Barcroft, Henry, Bessbrook Spinning Works, County Armagh, Ireland; and The Glen, Newry, Ireland.
1889. Barr, John, The Glenfield Engineering Works, Kilmarnock.
1898. Beanland, Fred, Messrs. Beanland, Perkin and Co., Leeds; and Bega, Harrogate.
1886. Bennison, William Clyburn, Messrs. Samuel Osborn and Co., Clyde Steel and Iron Works, Sheffield; and 12 Mayfield Road, Kersal, Manchester.
1892. Bowman, Frederic Hungerford, D.Sc., F.R.S.E., Spinningfield, Deansgate, Manchester.
1898. Brown, Ernest Frederick, Manager, Messrs. William Sugg and Co., Vincent Works, Regency Street, Westminster, S.W. [*Sugg, London.* Westminster 169.]; and John's Avenue, Hendon, London, N.W.
1888. Brown, Harold, Messrs. Linklater, Hackwood, Addison and Brown, 2 Bond Court, Walbrook, London, E.C.

1889. Castle, Frederick George, East London Technical College, People's Palace, Mile End Road, London, E.
1889. Chamberlain, John George, Messrs. Joseph Wright and Co., Neptune Forge, Tipton.
1888. Chrimes, Charles Edward, Messrs. Guest and Chrimes, Brass Works, Rotherham.
1890. Chubb, Richard, Messrs. Gillison and Chadwick, 10 Tower Buildings, Liverpool.
1892. Cryer, Arthur, 10 Penywain Place, Roath Park, Cardiff.

1899. Dadge, Nelson, Messrs. P. C. Middleton and Co., 10 North St. Andrew Street, Edinburgh.
1892. Davis, George Brown, 153A Clapham Road, London, S.W.
1895. Docker, Frank Dudley, Messrs. Docker Brothers, Birmingham Varnish Works, Icknield Port Road, Birmingham. [*Japan, Birmingham.* 3522.]

1899. Douglas, Loudon McQueen, Baltic Wharf Engineering Works, Putney, London, S.W. [*Fluoroids, London.*]

1898. Dowlen, Walton Edward, 43 Gloucester Road, Brownswood Park, London, N.

1900. Feather, Robert, Craven Bank Chambers, Bradford.

1891. Foster, George, Hecla Foundry Steel Works, Sheffield; and Lyme Villa, Rotherham.

1889. Golby, Frederick William, 36 Chancery Lane, London, W.C.

1900. Goodrich, Walter Francis, Messrs. Meldrum Brothers, 66 Victoria Street, Westminster, S.W.

1889. Gregory, George Francis, Boarzell, Hawkhurst.

1896. Harvey, Julius, 11 Queen Victoria Street, London, E.C. [*Crosshead, London.*]

1887. Hind, Enoch, Edgar Rise, Nottingham.

1898. Howard, Charles, British Non-Flammable Wood Co., Town Mead Road, Fulham, London, S.W.

1896. Hutton, William, P.O. Box 2399, Johannesburg, Transvaal, South Africa.

1891. Jackman, Joseph, Persberg Steel Works, Pothouse Road, Attercliffe, Sheffield. [*Persberg, Sheffield.* 94.]

1884. Jackson, Edward, Midland Railway-Carriage and Wagon Works, Birmingham. [*Wagon, Birmingham.*]

1897. James, Albert Alfred, St. George's Works, Paradise Street, West Bromwich. [*James, Wireworks, West Bromwich.* 5014.]

1896. Kennan, Williams Thomas, Messrs. Kennan and Sons, Fishamble Street, Dublin. [*Kennans, Dublin.*]

1897. Kenway, William Edward, Messrs. A. B. Bowden and Co., 17 Burlington Chambers, New Street, Birmingham.

1896. King, Benjamin Thomas, 165 Queen Victoria Street, London, E.C. [*Apis, London.* Bank 682.]

1898. Leechman, George Douglas, 18 Hertford Street, Coventry.

1896. Lemkes, Carl Rudolf Lewin, Messrs. Schäffer and Budenberg, 5 Wellington Street, Glasgow. [*Injector, Glasgow.* Royal 3119.]

1900. Leonard, Robert Maynard, 19 Ludgate Hill, London, E.C.

1898. Light, George Miller, 32 Victoria Street, Westminster, S.W. [*Hurrah, London.* Westminster 502.]

1895. MacBrayne, Laurence, 119 Hope Street, Glasgow.
1886. Mackenzie, Keith Ronald, Vectis, Bembridge, Isle of Wight.
1898. Marshall, Percival, Temple House, Temple Avenue, London, E.C.
1868. Matthews, Thomas Bright, Messrs. Turton Brothers and Matthews, Phœnix Steel Works, Sheffield. [*Matthews, Sheffield.*]
1901. Mayhew, Mark James, 112 Church Road, Battersea, London, S.W.
1889. McKinnel, William, 234A Nithsdale Road, Pollokshields, Glasgow.
1901. Mecredy, James, Wynberg, Blackrock, Dublin.
1890. Meggitt, Samuel Newton, Messrs. Ibbotson Brothers and Co., Globe Steel Works, Sheffield.
1898. Meintjes, Laurens Schmitz, P.O. Box 148, Cape Town, Cape Colony.
1898. Murray-Morgan, Everard Home, 8 Merridale Lane, Wolverhampton.

1887. Neville, Edward Hermann, 35 Calle de Alcala, Madrid, Spain.

1900. Page, Davidge, Clun House, Surrey Street, Strand, London, W.C.; and Hotel Russell, Russell Square, London, W.C.
1874. Paget, Berkeley, Low Moor Iron Office, 2 Laurence Pountney Hill, Cannon Street, London, E.C. [*Gryphon, London.*]
1886. Peacock, William J. P., Wells Street, Oxford Street, London, W.; and 41 St. James' Street, London, S.W.
1888. Peake, Robert Cecil, Cumberland House, Redbourn, near St. Albans.
1887. Peech, Henry, Phœnix Bessemer Steel Works, near Sheffield; and 49 Victoria Street, Westminster, S.W.
1887. Peech, William Henry, Phœnix Bessemer Steel Works, near Sheffield; and Fernbank, Roehampton Park, London, S.W.
1884. Phillips, Richard Morgan (*Life Associate*), care of J. Griffin, 6 Algiers Road, Ladywell, London, S.E.
1891. Plant, George, Moseley Road School, Birmingham.
1897. Prior, James D., Eagle Range and Foundry Co., Catherine Street, Aston, Birmingham. [*Ranges, Birmingham.* 2558.]

1892. Reed, Ernest Charles, Raamsdonk, Holland.
1891. Rowcliffe, William Charles, 1 Bedford Row, London, W.C.

1899. Sachs, Edwin Otho, 3 Waterloo Place, Pall Mall, London, S.W.
1900. Salomons, Sir David Lionel Goldsmid-Stern, Bart., Broomhill, Tunbridge Wells; and 49 Grosvenor Street, London, W.
1896. Sangster, William Skene, Superintendent, Lima Water Works, Lima, Peru.
1887. Scott, Walter, Victoria Chambers, Grainger Street West, Newcastle-on-Tyne. [*Contractor, Newcastle-on-Tyne.*]

1893. Simpson, Edward Percy, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1899. Smith, George Robert, Ossett, near Leeds.

1891. Spencer, Francis Henry, Bonanza Co., P.O. Box 149, Johannesburg, Transvaal, South Africa.

1897. Starley, William, Queen Victoria Road, Coventry. [*Salvo, Coventry.* 72.]

1892. Stead, John Edward, 11 Queen's Terrace, Middlesbrough. [*Stead, Middlesbrough.*]

1890. Taylor, John, 99 and 101 Fonthill Road, Finsbury Park, London, N.; and Stockport.

1896. Taylor, Joseph Henry, 9 and 11 Fenchurch Avenue, London, E.C. [*Tyne, London.* Avenue 4108.]

1887. Tozer, Edward Sanderson, Phœnix Bessemer Steel Works, near Sheffield.

1893. Wadham, Arthur, Wardrobe Chambers, 146A Queen Victoria Street, London, E.C. [*Wadham, London.*]

1897. Wallach, Lewis Charles, 57 Gracechurch Street, London, E.C. [*Hammerman, London.*]

1898. Warner, Ashby William, Norton, Stockton-on-Tees.

1899. Waterlow, David Sydney, The Thorns, Northwood, near Rickmansworth, Herts.

1892. Whitehead, Richard David, Municipal Technical College, Green Hill, Derby.

1883. Williamson, Robert S., Cannock and Rugeley Collieries, Hednesford, near Stafford.

1899. Wilson, James Michael Graham, Messrs. R. Wilson, Son and Co., St. George's Street, Cape Town, Cape Colony.

1891. Wiseman, Edmund, Cheapside and John Street, Luton. [*Wiseman, Luton.*]

1897. Wood, William Alfred, Messrs. Wood and Newland, 42 Spring Gardens, Manchester. [*Certificate, Manchester.*]

1899. Young, John Drummond, Managing Director, Scottish Boiler Insurance Co., 111 Union Street, Glasgow. [*Inspector, Glasgow.* 1271.]

GRADUATES.

1885. Addis, Frederick Henry, Mhow, Central India: (or care of Messrs. Grindlay and Co., 55 Parliament Street, London, S.W.)

1897. Allan, Frederick William, Glenalmond, Gillsland Road, Edinburgh.

1900. Appleby, Thomas Darby Haslam, 395 Harrow Road, Maida Hill, London, W.

1901. Armitstead, Henry, Sandbach Heath, Sandbach.

1897. Atherton, Percy William, Marden, Devizes.

1901. Atherton, William Herbert, Bewsey Forge, Warrington.

1890. Aubin, Percy Adrian, 29 St. James' Street, St. Helier's, Jersey.

1900. Bagg, Henry Arthur, Hazelwood, Boveney Road, Honor Oak Park, London, S.E.

1898. Balch, Bertram Duthoit, 238 Stockwell Road, Brixton, London, S.W.

1901. Barnwell, Eliott Arthur, 10 Nicosia Road, Wandsworth Common, London, S.W.

1889. Barrow, Arthur Robert Maclean, P. O. Box 39, Nelson, British Columbia: (or care of Mrs. Barrow, Holly Grove, Fittleworth, Pulborough.)

1901. Barrs, Edward, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1897. Baxandall, Richard Fitzgerald, Cregneish, Ben Rhydding, Yorkshire.

1900. Bazin, John Ralph, Great Northern Railway Works, Doncaster.

1901. Beckett, Joseph Edge, Tapton House, Sheffield.

1884. Bell, Robert Arthur, Clevedon, Prestwich Park, Manchester.

1900. Bennett, Henry Arthur Dillon, 51 West Dulwich Mansions, Croxted Road, West Dulwich, London, S.E.

1901. Bennett-Powell, Percival Gordon, Normanhyrst, Harlesden, London, N.W.

1901. Berners, Hamilton Hugh, 43 Ebury Street, London, S.W.

1902. Bexon, Ralph Amos, Ebenezer House, Basford, Nottingham.

1899. Blyth, Ernest Blackstone, Leamington Hastings, Rugby.

1900. Boreham, George Henry, Messrs. Allen Ransome and Co., Stanley Works, Newark.

1900. Boulton, Charles Valentine, 17 Wandle Road, Upper Tooting, London, S.W.

1901. Boulton, John Howard, 28 Victoria Street, Westminster, S.W.

1901. Bowen, Charles William, 13 Hyde Gardens, Eastbourne.

1899. Bower, Henry Allan Richard, Globe and Phœnix Mines, Rhodesia, South Africa.

1901. Bowman, Harold Edelston, Messrs. Stevenson and Co., Canal Foundry, Preston.

1900. Box, Wilfrid Leonard, Power Station, Pelham Road, Cleethorpes, Grimsby.

1888. Bradley, Arthur Ashworth, West Bank, Port Alfred, Cape Colony: (or care of Rev. Gilbert Bradley, St. Edmund's Vicarage, Dudley, Worcestershire.)

1899. Bradley, Cecil Gustav, Sunnyholm, Burnley.

1887. Bremner, Bruce Laing, Assistant Locomotive Superintendent, Uganda Railway, Mombasa: (or care of Mrs. Bremner, Streatham, Canaan Lane, Edinburgh.)

1900. Broughton, Harold, Technical College, Huddersfield.

1890. Brousson, Robert Percy, Great Northern and City Railway Contract, Poole Street, New North Road, London, N.

1901. Brown, Charles Anderton, The Lilleshall Co., Oakengates, Salop.

1898. Bruce, John George, Messrs. Clarke, Chapman and Co., Gateshead; and 5 Ashbrooke Terrace, Sunderland.

1901. Bulleid, Oliver Vaughan Pugh, Locomotive Department, Great Northern Railway, Doncaster.

1901. Burton, Charles Kingsley, Glenholme, Shipley, Yorks.

1899. Butters, Howard, Parkfield, Malvern.

1900. Calvi, Alberto Ulisse, Cairo, Egypt.

1890. Carthew-Wright, William, Dulce Domum, School Street, Charters Towers, Queensland.

1891. Caswell, Charles Henry, 75 Mount Pleasant, Barrow-in-Furness.

1902. Chabot, Vincent Howard, Osborne House, Selhurst, London, S.E.

1900. Chubb, Harry Emory, Burlingham, Chislehurst.

1900. Clapham, Thomas Alborn, Messrs. Clapham Brothers, Wellington Foundry, Keighley.

1901. Cliff, Thomas Percy Barlow, City Engineer's Office, Town Hall, Hull.

1892. Collingridge, Harvey, Messrs. S. Pearson and Son, Blackwall Tunnel Works, East Greenwich, London, S.E.; and Ingleborough, The Ridgway, Enfield.

1889. Cook, George Norcliffe, Messrs. Thomas Firth and Sons, Norfolk Works, Sheffield.

1899. Cooke, Rupert Thomas, Jun., Messrs. Francis Morton and Co., Garston, near Liverpool.

1900. Cooke, Stanley Walter, Thames Iron Shipbuilding and Engineering Works, Greenwich, London, S.E.
1901. Cooper, George Seton Halcott, Mount Pleasant, East Dereham.
1902. Cooper, Jasper Edwin, 59 Leyspring Road, Leytonstone, London, N.E.
1899. Cotton, George Burchell, Town Hall Chambers, Torquay.
1900. Cowcher, George, 8 Theresa Place, Bristol Road, Gloucester.
1900. Creswell, Francis Samuel, Sir William Arrol and Co., 32 Victoria Street, Westminster, S.W.
1901. Croft, Frank, Messrs. Croft and Perkins, Bradford.

1901. Davidson, James Samuel, Works Manager, Sirocco Engineering Works, Bridge End, Belfast.
1900. Davies, Edward Ayerst, 124 Croydon Road, Anerley, London, S.E.
1901. Davson, Cyril Were, 42 Lansdowne Crescent, Notting Hill, London, W.
1896. Dawe, John Nanscawen, Contractor's Office, Truro and Newquay Railway, Perranporth, R.S.O., Cornwall.
1899. Dawson, John Edward, Corporation Electricity Works, Burn Road, West Hartlepool.
1900. Deacon, Robert Dugald, Leopoldina Railway, Rio de Janeiro, Brazil.
1901. Dennis, George Stanley, 26 Newton Road, Bayswater, London, W.
1898. Dickinson, John Gilbert, 69 Rice Lane, Egremont, Cheshire.
1899. Dimes, Charles William, 20 Macduff Road, Battersea Park, London, S.W.
1884. Dixon, John, 117 Warton Street, Lytham.
1899. Dodge, Samuel Brickhill, Public Works Department, Perak, Federated Malay States.
1902. Dodridge, Albert Edwin, 13 St. Peter's Square, Hammersmith, London, W.
1900. Down, Percy, Holly Cottage, Wednesfield Road, Wolverhampton.
1899. Drayton, Theophilus James Bradley, Penwerris, Alexandra Road, Upper Norwood, London, S.E.
1901. Drown, Alfred Ernest, care of Percy Griffith, 54 Parliament Street, Westminster, S.W.
1891. Duncan, Martin Gordon, Lexden, 63 Elmfield Road, Upper Tooting, London, S.W.
1900. Dyson, John Daniel, Messrs. Rosling and Appleby, Trafalgar Works, Bradford.

1900. Edwards, John, Plas Geraint, Llangollen.
1899. Edwards, William Bernard, 65 St. Peter Street, Derby.
1901. Elliott, Alexander Gray, 2 Clarinda, Cave Hill Road, Belfast.
1901. Ellis, Rhodes Herbert, 349 Leeds Road, Bradford.
1901. Emerson, William Alexandra Ingilby, Locomotive Department, Great Northern Railway, Doncaster.

1897. Emery, James Inman, Messrs. P. Orr and Sons, Mount Road, Madras, India.
1897. Engelbach, Charles Richard Fox, Sir W. G. Armstrong, Whitworth and Co., Elswick Works, Newcastle-on-Tyne.
1900. Enock, John Kemp, The York Manufacturing Co., Bowling Green Buildings, New York, United States.
1897. Etlinger, George Ernest, Messrs. Turner, Hoare and Co., Bombay, India.
1900. Eugster, Oscar, Barnsbury Works, Barnsbury Street, London, N.
1901. Everett, George Eliot, 45 Lansdowne Road, Bedford.
1900. Eyers, Cyril, 2 Aubrey Road, Campden Hill Square, London, W.

1900. Falconer, Edward Alaric, 26 Marlborough Buildings, Bath.
1901. Faulkner, Francis Claude, Messrs. Willans and Robinson, Victoria Works, Rugby.
1900. Faulkner, Vivian, Messrs. L. Faulkner and Sons, Hersham, Walton-on-Thames.
1901. Forster, Richard, Thorncliffe Villa, Chapeltown, near Sheffield.
1900. Forward, Ernest Alfred, Inglecroft, Carshalton Grove, Sutton, Surrey.
1898. Fraser, William Stuart, 18 Queen's Square, Blackpool.
1901. Freeman, Bryn, Ynysmeudwy Tin Plate Co., Ynysmudw, R.S.O., Glam.
1901. Frisby, Archie George, West Yard, Taff Vale Railway Works, Cardiff.
1901. Fryer, John Edwin George, Messrs. Humphreys and Glasgow, 38 Victoria Street, Westminster, S.W.

1899. Gandon, Philip George, 16 Tressillian Crescent, Brockley, London, S.E.
1901. Gard, George Richard, West Yard, Taff Vale Railway Works, Cardiff.
1901. Gaskell, Holbrook, Jun., Bridge House, Sefton Park, Liverpool.
1901. Gauvain, William Percival, Conaways, Ewell, Epsom.
1902. George, Albert James, 25 Birdhurst Road, Wandsworth, London, S.W.
1898. Gibb, Maurice Sylvester, 5 Holbeck Hill, Scarborough.
1895. Gill, Charles Edgar, 9 Balmoral Place, Halifax.
1899. Good, Basil Price, 19 Luxemburg Gardens, Brook Green, Hammersmith, London, W.
1899. Goodall, Francis Harrison, Lucknow Avenue, Nottingham.
1898. Goodbehere, Eric, Messrs. Brooks and Doxey, Union Iron Works, West Gorton, Manchester.
1899. Goodman, Frank Adolphus, City Hydraulic Engineer's Office, Cape Town, Cape Colony.
1901. Gough, Percy Edwin, 1 Overton Road, Brixton, London, S.W.
1898. Green, Harry Hewlett Richard, Electric Construction Co., Wolverhampton.
1901. Greenwood, Frederick George, 32 Russell Square, London, W.C.

1899. Griffiths, Harold, Messrs. Parker, Wolverhampton; and Thornbury, Woodbourne Road, Edgbaston, Birmingham.

1900. Gulliver, Gilbert Henry, Engineering Laboratory, The University, Edinburgh.

1897. Guthrie, William James, Templehill, Troon.

1898. Hamilton, Harold, Messrs. Thomas Hamilton and Co., 90 Cannon Street, London, E.C.

1901. Hamilton, John, R.N., Royal Naval College, Greenwich, London, S.E.

1901. Harden, George Fredrick St. Clair, Elm Cottage, Chelmsford.

1899. Harris, Francis Graham Reynolds, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1898. Haslam, Alfred Victor, Union Foundry, Derby.

1901. Haslam, Sidney Bertram, 25 Wellington Road, Old Charlton, Kent.

1902. Hatfield, Kenneth George Stacy, 10 Regent Square, Doncaster.

1902. Hatton, Robert Andrew, 50 Carnarvon Road, Stratford, London, E.

1899. Hawkins, Elyot Sydney, Locomotive Department, Cambrian Railways, Oswestry.

1901. Hayes, Herbert Charles, Messrs. Rosser and Russell, 22 Charing Cross, London, S.W.

1902. Hayward, George, Messrs. Rugg and Son, Earl's Court Road, London, S.W.

1889. Hayward, Robert Francis, Union Light and Power Co., Salt Lake City, Utah, United States.

1901. Head, Walter George, 58 Lillieshall Road, Clapham, London, S.W.

1902. Heald, Harry, Messrs. Lang Bridge, Accrington.

1902. Heard, Frederick George, 36 Connaught Road, Stroud Green, London, N.

1877. Heaton, Arthur, Messrs. Heaton and Dugard, Metal and Wire Works, Shadwell Street, Birmingham. [*Heagard, Birmingham.*]

1900. Hedley, William Scott, 3 Summerhill Grove, Newcastle-on-Tyne.

1899. Hemingway, Ransome Leigh, Great Western Railway, Stafford Road, Wolverhampton.

1901. Herbert, Walter, Messrs. F. J. Hill and Co., Leicester Laundry Engineering Co., Great Central Street, Leicester. [*Gearing, Leicester.* Nat. Tel. 543.]

1901. Hibberd, Frederick Charles, Messrs. G. Spencer, Moulton and Co., 77 Cannon Street, London, E.C.

1900. Higgs, Arthur Franklin, Clarence House, Gloucester.

1900. Hill, Walter Hereward, Messrs. Howarth, Erskine and Co., Singapore, Straits Settlements: (or Fairmount, Herne Hill, London, S.E.)

1891. Hodgson, William James, Messrs. Hodgson and Hodgson, Central Chemical Works, Nottingham.
1887. Hogg, William, Messrs. Gates and Thomas, Warrington.
1901. Hollingsworth, Bertram, Prescot Road, St. Helens, Lancashire.
1898. Homan, Brees van, Messrs. Homan and Rodgers, 17 Gracechurch Street, London, E.C.
1900. Horsfield, Percy Firth, Messrs. J. and J. Horsfield, Vulcan Iron Works, Dewsbury.
1901. Horsnell, Thomas, 79 Farringdon Road, London, E.C.
1889. Hosgood, Thomas Watkin, Eaton Grove, Swansea.
1889. Howard, Geoffrey, Britannia Iron Works, Bedford.
1883. Howard, Harry James, Messrs. Colman's Mustard Mills, Carrow Works, Norwich.
1901. Howl, Frederick William, 35 Abbot's Road, Poplar, London, E.
1900. Hughes, Edmund Selby, Providence Wharf, East Greenwich, London, S.E.
1891. Hughes, Edward Sinclair Bremner, 1 The Terrace, Thurlow Park Road, West Norwood, London, S.E.
1896. Humphrey, Frederick George, 166 High Street, Sevenoaks.
1901. Hunter, John Chalmers, North British Railway, Cowlairs Works, Glasgow.
1900. Hunton, William, St. Cuthberts, Bath.
1901. Hurst, Joseph Henry, 20 Cambridge Street, Loughborough.
1901. Hussey, Frederick Kinneer Eyre, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.
1899. Hutchison, Percy, Cromwell, Southchurch Beach, Southend-on-Sea.

1902. Inchley, William, 92 Commercial Road, Grantham.
1900. Ingate, George James Arthur, Labuan and Borneo Co., Labuan, Borneo.

1901. Jenkins, Edgar Jackson, Messrs. R. Jenkins and Co., Masboro Boiler Works, Rotherham.
1896. Johnson, Henry Howard, Woodville, Rondebosch, Cape Town, Cape Colony.
1891. Jordan, Frederic William, Messrs. W. Jordan and Sons, 349 Euston Road, London, N.W.
1900. Josselyn, Edward, Messrs. A. Ransome and Co., Stanley Works, Newark.

1895. Keen, Harry A., Sandyford, Edgbaston, Birmingham.
1901. Kelsey, Percy William, 16 Woolwich Road, Belvedere, Kent.

1902. Kirlew, Richard Leopold, Jun., Mann's Hotel, 48 Torrington Square, London, W.C.

1896. Kitsell, Archibald Edward, 1B Stebbing Street, Latimer Road, London, W.

1900. Lakin-Smith, Clifford, Winchester Electric Light Co., 23 St. Peter Street, Winchester.

1883. Lander, Philip Vincent, Lyndhurst, Hampton Wick: (or care of W. W. Lander, Imperial Ottoman Bank, 26 Throgmorton Street, London, E.C.)

1898. Langdon, Harold Arthur William, Percy House, Kensington, Bath.

1901. Laubach, Philip Alfred, 26 West End Lane, Kilburn, London, N.W.

1900. Lee, Walter, 38 Worple Road, Wimbledon.

1900. Lenox, George Duncan, Messrs. Brown, Lenox and Co., Newbridge Works, Pontypridd.

1886. Lewis, William Thomas, Jun., Engineer's Office, Bute Docks, Cardiff; and Maplewood, Llandaff, Cardiff.

1899. Lowsley, Sydney Evan, Borough Surveyor's Office, Town Hall, Catford, London, S.E.

1900. Mackessack, Harry, 8 West Parade, Newcastle-on-Tyne.

1897. Mansfield, Frank, Messrs. Alex. Cowan and Sons, Flinders Lane, Melbourne, Victoria.

1899. Mansfield, Oliver, Messrs. Edwin Mansfield and Sons, 9 Second Line Beach, Madras, India. [*Gaslight, Madras.*]

1868. Mappin, Frank, Messrs. Thomas Turton and Sons, Sheaf Works, Sheffield.

1898. Maria, Horacio Santa, Administracion del Gas, Rosario de Santa Fé, Argentine Republic: (or care of Messrs. Hugo Brown and Co., 13 Castle Street, Liverpool.)

1892. Marks, Alfred Pally, 55 Gillott Road, Birmingham.

1889. Marshall, Frank Theodore, Messrs. R. and W. Hawthorn Leslie and Co., St. Peter's Works, Newcastle-on-Tyne.

1888. Marten, Hubert Bindon, New Filter Beds, Lambeth Water Works, Long Ditton, Surrey; and Pedmore, Stourbridge.

1902. Mason, Charles Lyall, Locomotive Department, London and North Western Railway, Crewe.

1886. Mattos, Alvaro Gomes de, 98 Rua da Sande, Rio de Janeiro, Brazil: (or care of Messrs. Fry Miers and Co., Suffolk House, 5 Laurence Pountney Hill, London, E.C.)

1901. Maw, Robert Lewis, 18 Addison Road, Kensington, London, W.

1901. Maw, Thomas Frederick, 81 Eastbourne Terrace, Gainsborough.

1898. Mayes, Howard, Kelvedon, Westwood Park, Southampton.

1901. Mayo, Charles Robert, Argentine Great Western Railway, River Plate House, Finsbury Circus, London, E.C.

1900. McDermott, Hugh, 3 Thurleigh Road, Wandsworth Common, London, S.W.

1901. McDonald, William, Tramways Board, Town Hall, Stalybridge.

1901. McGregor, James, North British Railway, Running Sheds, St. Margaret's Works, Edinburgh.

1901. Merrett, John Alfred, 9 Schussen Strasse, Ravensburg, Wurtemburg, Germany.

1900. Michell, William Henry, R.N., H.M.S. "Diadem," Channel Squadron.

1900. Miller, William Thomas Ward, 30 Beech Hill Road, Sheffield.

1891. Mills, Matthew William, Moss Foundry, Heywood, near Manchester.

1900. Minors, Ernest, Town Hall, Wolverhampton.

1891. Mogg, Henry Hodges, Newbridge Hill, near Bath.

1897. Montgomery, Charles Hubert, Carriage and Wagon Department, Lancashire and Yorkshire Railway, Victoria Station, Manchester.

1900. Moraes, James Affleck, Public Works Department, Ceylon.

1902. Morgan, Henry Frederick Stanley, 13 Milton Road, Swindon.

1902. Morris, Cyril Clarke Boville, 137 Sebert Road, Forest Gate, London, E.

1897. Muggeridge, Harold Chisman, care of R. L. Campbell, Tinnevelly-Quilon Railway, Shermadevi, Tinnevelly District, South India.

1902. Munyard, Alfred Walford, Eastcombe Terrace, Blackheath, London, S.E.

1900. Murdoch, Alexander Gemmell, Messrs. T. and J. Hosking, Dockhead Iron Works, Bermondsey, London, S.E.

1892. Murray, David James, 10 St. Bees Street, C.-on-M., Manchester.

1901. Nevill, Stanley Sharp, 11 St. Mary's Road, Canonbury, London, N.

1901. Newman, Kenneth Charles Horton, 42 Nelson Road South, Great Yarmouth.

1900. Newton, George Henry, Messrs. Rosling and Appleby, Trafalgar Works, Bradford.

1901. Newton, Percy, The Electric Construction Co., Bushbury, Wolverhampton.

1897. Nixon, Charles Basil, Walton Firs, Shrewsbury Road North, Birkenhead.

1899. Nutter, Harold Norman, Messrs. W. Melland and Co., Bridge Street, Ardwick, Manchester.

1899. O'Brien, Henry Eoghan, Lancashire and Yorkshire Railway, Horwich, near Bolton.

1883. O'Connor, John Frederick, Messrs. O'Connor and Rutherford, 31 and 33 Broadway, New York, United States.

1883. Osborn, William Fawcett, Messrs. Samuel Osborn and Co., Clyde Steel and Iron Works, Sheffield.

1899. Parker, Frederick Thomas, St. John del Rey Mines, Morro Velho, Minas Geraes, Brazil.

1900. Parlby, Valentine, 374 Goldhawk Road, Chiswick, London, W.

1899. Pashby, Arthur Harold, Cauldwell, Claremont Road, St. Margaret's-on-Thames.

1898. Payne, Frank Gervas, Stettin Lodge, St. Faith's Road, West Norwood, London, S.E.

1901. Peacock, Jesse Butler, care of E. Fuhrmann Clarke, Curzon Chambers, Paradise Street, Birmingham.

1901. Peake, Ashley Crosthwaite, 46 Mount View Road, Stroud Green, London, N.

1899. Pearson, Charles Dearne, 19 Court Ucha, Port Talbot.

1901. Penn, Reginald William, 16 Overstrand Mansions, Prince of Wales Road, Battersea, London, S.W.

1900. Perry, Edgar William Frank, 1 and 2 Palace Chambers, 9 Bridge Street, Westminster, S.W.

1890. Philipson, John, Messrs. Atkinson and Philipson, 27 Pilgrim Street, Newcastle-on-Tyne. [*Carriage, Newcastle-on-Tyne.* 1641.]

1884. Philipson, William, Messrs. Atkinson and Philipson, 27 Pilgrim Street, Newcastle-on-Tyne. [*Carriage, Newcastle-on-Tyne.* 1641.]

1901. Pickles, Thomas Sykes, 171 Tipping Street, Ardwick, Manchester.

1900. Plaister, William Edward, Pembury House, Tottenham, London, N.

1900. Plante, Stanley Gedge, 25 Roman Road, Colchester.

1892. Power, Arthur Cyril, 4 Fordwych Road, Brondesbury, London, N.W.

1898. Preen, Arthur Harvey, 248 Finchley Road, Hampstead, London, N.W.

1901. Prevôst, Alfred Thomas, 28 Thames Street, Kingston-on-Thames.

1899. Prosser, Robert Walter Ostell, Messrs. A. Guinness, Son and Co., Engineers' Office, St. James's Gate Brewery, Dublin.

1901. Purse, Frederick Walter, Electricity Works, Howley, Warrington.

1892. Ransom, Herbert Byrom, Messrs. Manlove Alliott and Co., 57 Gracechurch Street, London, E.C.

1901. Reeves, Charles Ingham, Manor Farm, Wooburn, Bucks.

1898. Rennie, John Assheton, Messrs. G. Rennie and Co., Thames Street, Greenwich, London, S.E.

1901. Reside, Andrew, care of James Reside, Brighouse.

1884. Reynolds, Thomas Blair, 28 Victoria Street, Westminster, S.W.

1900. Richards, James Garfield, Locomotive Works, London and South Western Railway, Nine Elms, London, S.W.

1901. Ritchie, John McAuslan, care of T. H. Houghton, 63 Pitt Street, Sydney, New South Wales.

1899. Roberts, Robert Coryton, Messrs. O'Gorman and Cozens Hardy, 82 Victoria Street, Westminster, S.W.

1900. Robertson, Walter Henry Antonio, 4 Grove Hill Road, Champion Hill, London, S.E.

1897. Rootham, Howard Melville, 12 Well Walk, Hampstead, London, N.W.

1896. Rothschild, Lester Vivian, Messrs. Harper, Harper and Henderson, Leadenhall Buildings, 1 Leadenhall Street, London, E.C.

1901. Rouse, Frederick Robert Charles, 204 Kentish Town Road, London, N.W.

1901. Ruddle, George William, 493 New Cross Road, London, S.E.

1888. Rümmele, Alfredo, 17 Via Principe Umberto, Milan, Italy.

1901. Sandaljian, Bedros, Messrs. Joseph Baker and Sons, Willesden Junction, London, N.W.

1899. Sanderson, Herbert William, University College, Nottingham; and Bath Vale, Mansfield.

1890. Saxelby, Herbert Raffaelle, care of C. Aris, 19 Binden Road, Ravenscourt Park, London, W.

1881. Scott, Ernest, Messrs. Ernest Scott and Mountain, Close Works, Newcastle-on-Tyne. [*Esco, Newcastle-on-Tyne.* 1259.]

1901. Senior, George, The Mill House, Frindsbury Hill, Rochester.

1898. Sharp, William, Messrs. A. D. J. Main and Co., 31 Dalhousie Square, Calcutta, India.

1901. Sharpley, Reginald, Engineer's Office, Great Northern Railway, King's Cross, London, N.

1892. Shepherd, James Horace, Great Western Railway, Swindon; and 10 Gloucester Street, Swindon.

1901. Smith, Alfred John, Borough Surveyor's Office, Ilkeston.

1898. Smith, George Alfred, Ash Lodge, Watford.

1898. Smith, Ralph Vernon, Hickling Lodge, near Keyworth, Notts.

1899. Smith, Raymond Berkeley, Pary-Booye Pri Mines, Axim, Gold Coast Colony, West Africa.

1901. Smith, Reginald Redhead, Simms Manufacturing Co., 55A Southwark Park Road, Bermondsey, London, S.E.

1900. Smith, Walter Tom, 9 Victoria Street, Westminster, S.W.

1900. Smyth, Robert Henry, Dunnany House, Carrickmacross, Co. Monaghan.

1901. Soames, Ernest Arthur, Fernleigh, Westcombe Park Road, Blackheath, London, S.E.

1900. Soyres, Bernard de, 4 Leicester Place, Clifton, Bristol.

1901. Spencer, Arthur John, Machinery Division, Victoria and Albert Museum, South Kensington, London, S.W.

1902. Steed, Alfred William, Royal College of Science, Exhibition Road, South Kensington, London, S.W.

1899. Stevens, Percy Herbert, Messrs. Archibald Smith and Stevens, Janus Works, Queen's Road, Battersea, London, S.W.

1899. Stewart, Charles, Locomotive Running Sheds, Great Northern Railway, Grantham.

1892. Stokes, Frank Torrens, P.O. Box 1355, Johannesburg, Transvaal, South Africa.

1900. Stonebridge, Arthur Watson, 63 Earlham Road, Norwich.

1899. Stow, George, Southdown Road, Shoreham, Sussex.

1900. Taite, Geoffrey Charles, Trinity College, Cambridge.

1902. Talbot, Ernest, Technical Department, University College, Sheffield.

1898. Tarver, Herbert Henry, Messrs. Walker, Sons and Co., Colombo Iron Works, Colombo, Ceylon.

1899. Taylor, Frank Coston, 25 George Street, Cheetham Hill, Manchester.

1901. Taylor, George Stevenson, H.M. Inspector of Factories, Prudential Assurance Buildings, Mosley Street, Newcastle-on Tyne.

1884. Taylor, Maurice, 50 Rue Rochechouart, Paris.

1901. Thomas, Nevill Senior, Messrs. Topham, Jones and Railton, New Bute Docks, Cardiff.

1901. Thompson, Edgar Wakelin, Manager, Boyd's Ice Factory, Kalikat Street, Bombay, India.

1900. Thompson, Edward Horace, 183 Camberwell Grove, London, S.E.

1899. Thomson, Alfred Morris, Lilybank Engine and Boiler Works, Dundee.

1895. Titren, Gerald Ernest de Keyser, Natal Government Railway Works, Durban, Natal.

1899. Trafford, Joseph Peter, Gravelly Hill, near Birmingham.

1899. Tregoning, Wynn Harold, Messrs. Bramwell and Harris, 5 Great George Street, Westminster, S.W.

1901. Turnbull, Walter Alexander, 3 Fern Avenue, Southwick, Sunderland.

1901. Turner, Ernest William, City Engineer's Office, Peterborough.

1898. Turner, Vincent, City of Westminster, City Engineer's Office, 1 Pimlico Road, London, S.W.

1901. Turner, William Wallace, care of T. H. Houghton, 63 Pitt Street, Sydney, New South Wales.

1900. Viney, Horace, Messrs. Simpson and Bibby, Pomona Engine Works, Cornbrook, Manchester,

1901. Wadams, Samuel James, 95 Whitehall Road, Handsworth, Birmingham.

1888. Waddington, Samuel Sugden, 35 King William Street, London Bridge, London, E.C.

1900. Wadham, Robert, Messrs. Calvert and Co., Gothenburg, Sweden.

1896. Walker, Charles Bell, Messrs. Veritys, Plume Works, Aston, Birmingham.

1901. Walker, Thomas Archibald, Messrs. Simpson and Co., 101 Grosvenor Road, Pimlico, London, S.W.

1901. Wallace, Cecil Percy, Messrs. John Birch and Co., 10 and 11 Queen Street Place, London, E.C.

1900. Walton, Denys, 2A Blomfield Gardens, Shepherd's Bush, London, W.

1898. Wans, Oswald, Easdale, Westcombe Park Road, Blackheath, London, S.E.

1888. Waring, Henry, Engineer, Dublin Laundry Co., Milltown, near Dublin.

1901. Warner, Harold Metford, 44 Highbury Park, London, N.

1900. Warner, James Sutherland, Glen Deep, Disraeli Road, Forest Gate, London, E.

1901. Warwick, Percy Walter, 14 Chapel Street, Euston Road, London, N.W.

1900. Western, Hugh, Egyptian State Railway, Cairo, Egypt.

1888. Whichello, Richard, Messrs. Victor Uslaender and Co., 33 Rua do General Camari, Caixa 542, Rio de Janeiro, Brazil: (or 44 Trumpington Street, Cambridge.)

1901. White, Percy Wilson, 25 Walm Lane, Willesden Park, London, N.W.

1900. Widdowson, Ernest Leedham, Messrs. Jonas Drake and Son, Ovenden, Halifax.

1889. Wigham, John Cuthbert, Edmundsons' Electricity Corporation, Broad Sanctuary Chambers, Westminster, S.W.

1901. Wilkinson, Frank, Peel House, Shawforth, Rochdale.

1901. Willey, Leonard Arthur, Elmside, Ealing, London, W.

1898. Williams, Norman C., Messrs. Reavell and Co., Ranelagh Works, Ipswich.

1901. Williams, Stanley Victor, 23 Loughborough Road, Brixton, London, S.W.

1900. Williams, Vernon Ingram Norbury, 75 Shakespeare Street, Chorlton-on-Medlock, Manchester.

1890. Wilson, Alexander Cowan, 26 Village Street, Everton, Liverpool.

1897. Wilson, Robert James, Babcock and Wilcox Co., Oriel House, Farringdon Street, London, E.C.

1900. Winch, Apsley Brooke, Morden Grange, Blackheath, London, S.E.

1901. Windsor, Arthur Whalesby, British Power Traction and Lighting Co., York.

1902. Wolstenholme, Walter, Messrs. John Musgrave and Sons, Globe Iron Works, Bolton.

1902. Wood, Charles Cuthbert, Messrs. W. H. Allen, Son and Co., Queen's Engineering Works, Bedford.

1899. Wray, Romulus Paul, 42 Tollington Road, Holloway, London, N.
1898. Wylie, Reginald Charlton, School of Mines, Camborne.

1900. Yates, Donald Russell Martin, Messrs. James Simpson and Co., Lowfield Foundry, Balderton, Newark.
1891. Yerbury, Frederick Augustus, Mirrlees Watson Co., 45 Scotland Street, Glasgow.
1902. York, Richard Lister, Messrs. Le Maitre and Parker, Greek Street Chambers, Leeds.

TOPOGRAPHICAL LIST OF MEMBERS.

BRITISH ISLES.

ENGLAND.

Accrington—
Heald, H. G.

Altrincham—
Brogden, H. M.
Edmondson, A. R. A.M.
Hopkinson, J. M.
Pollitt, H. M.
Rowland, B. R. M.

Ashford—
Masterton, J. F. M.
Sands, H. M.
Stirling, J. M.

Ashton-under-Lyne—
Cartwright, W. M.
Lees, S. M.

Banbury—
Cunningham, H. M.
Nasbey, G. W. M.
Samuelson, The Rt. Hon. Sir B. M.
Samuelson, E. M.

Barking—
Seabrook, A. H. A.M.

Barnsley—
Allport, H. A. M.

Barnstaple—
Colbourne, T. S. A.M.

Barrow-in-Furness—
Banister, G. H. M.
Caswell, C. H. G.
Dunn, J. M.
Little, E. M.
McKechnie, J. M.
Oughterson, G. H. A.M.
Pettigrew, W. F. M.
Thackeray, T. M.
Wilkins, G. C. A.M.
Winlaw, W. W. A.M.

Bath—
Day, A. G. A.M.
Falconer, E. A. G.
Horner, J. G. A.M.
Hunton, W. G.
Langdon, H. A. W. G.
Mogg, H. H. G.
Pitt, W. M.

Batley—
Bagshaw, W. M.

Bedford—
Allen, R. W. M.
Allen, W. H. M.
Everett, G. E. G.
Fiegehen, E. G. A.M.
Grafton, A. M.
Harris, L. P. M.
Howard, G. G.
Howard, J. H. M.
Steinmetz, A. S. B. A.M.
Trunchion, W. T. F. A.M.
Wolff, C. E. A.M.
Wood, C. C. G.

Belper—
Alleyne, Sir J. G. N. M.

Belvedere—
Kelsey, P. W. G.
Pritchard, R. C. A.M.
Walker, P. M.

Bembridge—
Mackenzie, K. R. A.

Bexhill-on-Sea—
Russell, F. A.M.

Bilston—
Holcroft, T. M.

Birkenhead—
Barker, E. G. M.
Bateman, J. T. M.
Nixon, C. B. G.

Birmingham—
Allan, G., Jun. A.M.
Anderson, E. W. M.
Arnold, W. M.
Astbury, J. M.
Aston, J. W. M.
Avery, W. B. M.
Awdry, W. L. M.
Baker, J. A.M.
Barker, T. P. A.M.
Barrow, L. A.M.
Bayliss, T. R. M.
Beesly, G. M.
Belliss, G. E. M.
Belliss, J. M.
Blumfield, T. W. A.M.
Burstall, Prof. F. W. M.
Carr, J. J. W. A.M.
Causer, W. G. M.
Cerrito, F. H. A.M.

Birmingham (*cont.*)**—**
Challen, S. W. M.
Challen, W. B. M.
Chatwin, J. M.
Churchward, G. D. M.
Clarke, E. F. M.
Cooper, W. J. A.M.
Corby, M. A.M.
Cox, J. M.
Dews, F. M.
Dickinson, A. M.
Dickinson, R. H. M.
Docker, F. D. A.
Douglass, A. E. A.M.
Dugard, W. H. M.
Edwards, A. E. A. M.
Edwards, E. L. A.M.
Everitt, N. H. M.
Ewen, T. B. M.
Foster, J. S. M.
Garland, F. J. A.M.
Garrard, C. R. M.
Gibbins, R. C. M.
Ginders, E. M. A.M.
Goodman, A. C. A.M.
Graham, H. B. A.M.
Greenwood, W. H. M.
Guest, J. J. M.
Hall, J. W. M.
Hall, R. F. A.M.
Hall, T. B. M.
Hampton, J. A.M.
Harrison, C. G. M.
Haskew, F. J. T. A.M.
Heaton, A. G.
Heaton, C. M.
Heaton, G. M.
Hipkins, W. E. M.
Hodgson, R. B. A.M.
Holmes, H. A.M.
Hughes, G. W. A.M.
Jackson, E. A.
Jefferiss, T. M.
Jones, E. M.
Jones, F. M.
Jones, S. D. A.M.
Keen, A. M.
Keen, F. W. M.
Keen, H. A. G.
Kenway, W. E. A.
Ketley, C. B. A.M.
Knottesford-Fortescue, J. N. A.M.

Birmingham (*cont.*)—
Lea, F. M. A.M.
Lea, H. M.
Little, G. M.
Lloyd, G. B. M.
Lloyd, S. Z. M.
Mapplebeck, E. M.
Marks, A. P. G.
Marks, E. C. R. M.
Marshall, J. G. M.
Marshall, W. B. M.
Marshall, W. P. M.
Mitton, E. M., Jun. M.
Mitton, T. E. A.M.
Morcom, A. M.
Mountain, C. G. M.
Nettlefold, G. A.M.
Newman, R. W. M.
Norton, A. A.M.
Parrott, T. H. M.
Parsonage, W. R. A.M.
Peacock, J. B. G.
Pedley, H. I. A.M.
Penn, F. J. M.
Piercy, H. J. T. M.
Plant, G. A.
Prior, J. D. A.
Rainforth, W. F. A.M.
Rapson, J. T. A.M.
Reynolds, A. M. A.M.
Richey, W. F. A. A.M.
Robson, W. H. M.
Rogers, W. I. A.M.
Ronald, H. M.
Rosevere, G. R. A.M.
Sangster, C. A.M.
Shackleford, A. L. M.
Sharp, T. B. M.
Shirlaw, A. M.
Smith, J. M.
Somers, W. M.
Spiller, W. O. A.M.
Suffield, F. W. A.M.
Tangye, G. M.
Tangye, H. L M.
Tangye, J. M.
Tangye, J. H. M.
Taunton, R. H. M.
Taylor, J. S. M.
Thomas, W. F. A.M.
Thornbery, W. H. M.
Threlfall, G. A.M.
Titley, A. M.
Trafford, J. P. G.
Turner, A. M.
Wadams, S. J. G.
Walker, C. B. G.
Walker, T. F. M.
Walker, Z., Jun. M.
Wall, C. H. M.
Ward, T. H. M.
Warden, W. E. M.
Wearing, J. E. M.
Wheeler, P. M.
Whitehouse, A. A.M.
Winn, C. R. M.
Wiseman, A. A.M.
Woollen, T. H. M.
Worsley, P. J., Jun. A.M.
Wright, W. M.

Birtley—
Snoxell, G. E. M.

Blackburn—
Coddington, Sir W. M.

Blackburn (*cont.*)—
Hargraves, R. M.
Stones, W. G. A.M.
Thom, F. A.M.
Thom, W. M.

Blackpool—
Fraser, W. S. G.
Lloyd, C. M.
Speight, J. W. A.M.

Blaydon-on-Tyne—
Douglass, W. J. M.

Bolton—
Arnold, A. A. A.M.
Attock, F. W. A.M.
Bromiley, W. J. M.
Chatwood, A. B. A.M.
Chatwood, S. M
Chatwood, S. R. M.
Cottrill, J. O. M.
Forrest, H. S. M.
Hamer, W. M.
Hargreaves, J. H. M.
Harwood, R. M.
Holden, E. C. A.M.
Hoy, H. A. M.
Hudson, J. G. M.
Hughes, G. M.
Jackson, H. L. A.M.
Jones, A. D. A.M.
Jones, C. F. M.
Macbeth, N. M.
Musgrave, W. M. M.
O'Brien, H. E. G.
Richardson, H. A. M.
Rushton, J. L. A.M.
Ryder, G. A. A.M.
Sharp, J. M.
Shawcross, G. N. M.
Walker, R. A.M.
Wolstenholme, W. G.
Wood, H. M.

Boston—
Lovell, S. G. A.M.
Simonds, W. T. M.

Bournemouth—
Bulfin, I. A.M.
Wheeler, G. U. A.M.

Bradford—
Appleby, H. W. A.M.
Charnock, G. F. M.
Croft, F. G.
Dyson, J. D. G.
Ellis, A. D. M.
Ellis, R. H. G.
Feather, R. A.
Foster, E. H. A.M.
Foster, H. A. M.
Graham, J. M.
Helme, E. T. M.
Hodgson, G. H. M.
McTaggart, J. A.M.
Morley, H. W. M.
Newton, G. H. G.
Robinson, H. A.M.
Rycroft, J. E. A.M.
Scott, A. F. M.
Smith, W. H. M.
Stephenson, A. A.M.
Sutcliffe, F. J. R. M.
Taylor, A. J. A.M.
Whittaker, F. W. M.
Wigglesworth, F. A.M.

Bradford-on-Avon—
Oswald, G. H. A.M.

Braintree—
Clayton, J. M.
Tabor, E. H. A.M.

Brentwood—
Tower, B. M.

Bridgwater—
Wills, F. M.

Bridport—
Harris, H. N. A.M.

Brierley Hill—
Mantle, H. G. M.
Smith, H. M.

Brighouse—
Reside, A. G.

Brighton—
Armstrong, G. E. A.M.
Beves, N. E. A.M.
Billinton, R. J. M.
Cameron, R. B. A.M.
Couch, R. E. A.M.
Gaston, A. B. A.M.
Johnston, J. M.
North, H. A.M.
O'Reilly, F. J. A.M.
Smart, L. S. M.
Waugh, H. N. D. A.M.

Bristol—
Baber, S. E. A.M.
Ellery, H. G. M.
Fiddes, W. M.
Fry, A. M.
Heinke, E. H. A. M.
Jolin, P. M.
Munro, E. M. M.
Munro, Prof. J. M.
Osborn, J. L. A.M.
Parkinson, H. C. M.
Pearson, H. W. M.
Peckett, A. A.M.
Soyres, B. de G.
Soyres, F. J. de M.
Stagg, W. M.
Stothert, G. K. M.
Strong, A. G. A.M.
Swaine, J. M.
Thompson, J. R. M.
Watts, J. M.

Broseley—
Garrard, G. M. M.

Burnley—
Bradley, C. G. G.

Burslem—
Haler, P. J. A.M.

Burton-on-Trent—
Boffey, W. M.
Daniel, E. F. M
Goff, J. M.
Hodges, F. G. M.
Metcalfe, F. S. M.
Perks, J. M.
Ranger, R. M.
Smith, J. M.
Stephenson-Peach, W. J. M.
Thornewill, R. M.
Thornley, G. M.

Bury, Lancs.—
Bentley, G. M.
Hacking, W. H. M

Bury, Lancs. (*cont.*)—
Hall, O. S. M.
Peregrine, W. H. A.M.
Riley, J. H. M.
Walmsley, C. M.
Webb, H. M.

Bury St. Edmunds—
Mumford, C. E. M.
Stevens, T. M.

Camborne—
Keast, J. C. A.M.
Rowe, J. A.M.
Warren, H. J., Jun. M.
Wylie, R. C. G.

Cambridge—
Darwin, H. M.
Ewing, Prof. J. A. M.
Taite, G. C. G.

Carlisle—
Dove, G. M.
Pratchitt, J. M.
Pratchitt, W. M.

Carnforth—
Snelus, G. J. M.
Worsdell, T. W. M.

Chatteris—
Esson, J. M.

Chelmsford—
Butcher, W. E. A.M.
Clarkson, T. M.
French, A. H. A.M.
Harden, G. F. St. C. G.
Horsnaill, W. O. A.M.
Somerville, F. H. A.M.

Cheltenham—
Kilgour, M. H. M.
Phillott, G. H. A.M.

Chester—
Carter, W. M.
Comerford, E. A.M.
Gritton, J. A.M.
Shaw, W. C. A.M.

Chesterfield—
Clark, G. M.
Clench, F. M.
Gandy, F. M.
Haywood, A. R. A.M.
Macdonald, J. A. M.
Mensforth, H. A.M.
Morris, W. J. A.M.
Pilkington, H. M.
Smith, A. A.M.

Chester-le-Street—
Wood, Sir L. M.

Chippenham—
Adams, A. E. A.M.

Chipping Sodbury—
Manton, A. W. M.

Chislehurst—
Chubb, H. E. G.

Cinderford—
Wasdell, T. A.M.

Claygate—
Schutte, F. A. A.M.

Cleckheaton—
Hodgson, H. E. M.

Cleobury Mortimer—
Shaw, G. A.M.

Clevedon—
Pye, J. H. A.M.

Coalbrookdale—
Norris, W. G. M.

Colchester—
King, T. S. M.
Paxman, J. N. M.
Plante, S. G. G.

Colne—
Rushworth, G. W. A.M.

Congleton—
Sanders, G. A.M.

Coniston—
Warsop, T. M.

Consett—
Douglas, W. S. A.M.
Scott, J. M.

Coventry—
Bamber, H. W. A.M.
Bennett, A. E. M.
Brett, A. W. A.M.
Craig, A. A.M.
Harmer, O. M.
Herbert, A. M.
Holroyd, V. A. A.M.
Iden, G. M.
Keegan, F. J. A.M.
Lea, R. H. M.
Leechman, G. D. A.
Lupton, K. M.
Meredith, J. M.
Pugh, C. V. M.
Pugh, J. V. A.M.
Starley, R. A.M.
Starley, W. A.
Wade, F. R. A.M.

Cowes—
Carnt, E. C. M.
Forster, A. A.M.

Cradley—
Swindell, J. S. E. M.

Cradley Heath—
Cowdell, H. C. M.

Crayford—
Heath, G. W. M.

Crewe—
Eaton-Shore, G. M.
Footner, H. M.
Mason, C. L. G.
Oke, F. R. M.
Whale, G. M.

Croydon—
Dickinson, W. M.
Thompson, T. A.M.

Dagenham—
Williams, A. E. M.

Darlington—
Baister, C. M.
Butler, H. W. M.
Douglas, C. P. M.
Kendal, R. M.
Peart, J. M.
Raven, V. L. M.
Shaw, I. A.M.

Darlington (*cont.*)—
Smeddle, J. H. M.
Wheeler, O. A.M.
Williams, C. E. A.M.

Dartford—
Bell, W. A.M.
Brier, H. M.
English, Lt.-Col. T. M.
Hesketh, E. M.

Dartmouth—
Enock, E. C. A.M.

Darwen—
MacIvor, A. A.M.
Mills, S. J. A. A.M.

Deal—
Cowper, C.E. M.

Derby—
Arnold, J. A. M.
Bell, F. A.M.
Coles, H. J. M.
Deeley, R. M. M.
Donne, F. E. M. A.M.
Eastwood, T. C. M.
Edwards, W. B. G.
Fowler, H. M.
Guest, C. H. M.
Halsey, C. T. A.M.
Haslam, Sir A. S. M.
Haslam, A. V. G.
Haslam, W. G. M.
Hill, J. M.
James, T. M.
Johnson, S. W. M.
Jones, C. H. M.
Mills, R. M.
Moulton, A. J. M.
Osborne, T. P. M.
Ottewell, A. M.
Peet, W. G. M.
Rosevere, R. G. A.M.
Smith, J. W. M.
Summerfield, R. D. A.M.
Surtees, H. W. M.
Swingler, A. M.
Unsworth, H. G. M.
Whitehead, R. D. A.

Devizes—
Atherton, P. W. G.

Devonport—
Kitchin, J. W. A.M.
Pilling, F. S. A.M.
Stocker, P. M.

Devoran—
Visick, C. A.M.

Dewsbury—
Horsfield, P. F. G.

Doncaster—
Bazin, J. R. G.
Bulleid, O. V. P. G.
Crooke, W., Jun. A.M.
Dove, G. M.
Emerson, W. A. I. G.
Hatfield, K. G. S. G.
Ivatt, H. A. M.
Marsh, D. E. M.
Stirling, P. M.
Stirling, R. M.
Webster, F. J. M.
Wyld, W. A.M.

Dover—
Taylor, R. H. M.

Dudley—
Cochrane, J. B. M.

Dukinfield—
Oldham, F. M.
Oldham, T. M.

Durham—
Meriton, T. H. R. M.

Earls Colne—
Hunt, F. A.M.

Eastbourne—
Bowen, C. W. G.
Rodda, J. T. A.M.

East Dereham—
Cooper, G. S. H. G.

Eastleigh—
Gore, H. R. A.M.

Egremont—
Dickinson, J. G. G.

Elstree—
Braithwaite, C. C. M.

Epsom—
Gauvain, W. P. G.

Erith—
Hodgson, E. M.
Shoosmith, H. M.
Smart, A. M.
Ticehurst, H. G. M.
Whitmore, F. L. M.

Eton—
Sainty, C. M.

Exeter—
Hodges, M. H. M.
Ormerod, R. O. M.
Simpson, S. A.M.

Falmouth—
Cox, H. H. M.
Stephens, C. R. A.M.

Farnborough—
Talbot, F. W. A.M.

Fence Houses—
Lishman, T. M.

Fleetwood—
Foster, S. A.M.

Folkestone—
Hathorn, J. C. M. A.M.

Gainsborough—
Cribb, F. J. M.
Marshall, Henry D. M.
Marshall, H. D. M.
Marshall, H. J. M.
Marshall, J. M.
Maw, T. F. G.
Newell, E. A.M.

Gateshead—
Bruce, J. G. G.
Carrick, H. M.
Cowens, W. E. M.
Smith, W. M. M.
Walker, H. M.
Worsdell, W. M.

Gloucester—
Cowcher, G. G.
Dorman, W. S. M.
Fielding, J. M.
Goold, W. T. M.

Gloucester (*cont.*)**—**
Higgs, A. F. G.
Howard, J. W. M.
Mindo, A. W. A.M.
Norton, S. J. A.M.
Platt, F. J. M.
Scott, C. H. M.
Sisson, W. M.
Slater, A. M.

Goole—
Dunn, M. M.
Gibbons, W. G. M.

Gosport—
Bell, E. M.

Grantham—
Close, H. A. A.M.
Dossor, H. A.M.
Hornsby, J. M.
Inchley, W. G.
James, C., Jun. M.
Roberts, D. M.
Stewart, C. G.

Gravesend—
Muirhead, R. M.
Sandford, H. M.

Great Missenden—
Whitby, A. G. M.

Great Yarmouth—
Newman, K. C. H. G.
Pertwee, H. A. A.M.

Grimsby—
Box, W. L. G.
Bulwer, E. H. E. M.
Wotherspoon, J. D. M.

Guildford—
Burne, E. L. A.M.
Dickinson, W. A.M.

Halifax—
Bentley, W. M.
Butler, J. M.
Campbell, H. M.
Gill, C. E. G.
Hardy, J. H. A.M.
Marshall, L. M.
Marsland, J. S. M.
Naylor, J. A.M.
Naylor, S. M.
Redman, J. M.
Slingsby, W. A.M.
Widdowson, E. L. G.

Hampton Wick—
Lander, P. V. G.

Hanley—
Smith, T. J. A.M.

Hanley Castle—
Maylor, W. M.

Harrogate—
Wilkinson, G. M.

Harrow—
Scott, N. L. A.M.

Hartlepool—
Cheesman, W. T. M.
Harding, J. C. M.
Morison, D. B. M.
Richardson, Sir T. M.

Harwich—
Blenkinsop, J. N. M.

Hawkhurst—
Gregory, G. F. A.

Hayle—
Harvey, F. H. M.
Hawkins, T. S. A.M.

Hayling Island—
Moore, T. R. A.M.

Heaton-on-Tyne—
Casebourne, A. C. A.M.

Hednesford—
Bumsted, F. D. M.
Chandler, N. M.
Williamson, R. S. A.

Highbridge—
Whitaker, A. M.

Hitchin—
Spencer, A. L. H. A.M.

Hove—
Hill, R. A. M.

Howden—
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Wells, G. J. M.
West, J. M.
Weyman, J. E. M.
Whitehead, J. P. A.M.
Whitehead, T. M.
Williams, Sir E. L. M.
Williams, V. I. N. G.
Wilson, W. H. M.
Wollaston, T. R. M.
Wood, W. A. A.
Wordingham, C. H. M.
Worthington, S. B. M.
Worthington, W. B. M.
Wroe, J. M.
Yates, J. M.
Yates, W. M.

Mansfield—
Prance, C. R. A.M.

Matlock-Bath—
King, C. P. M.

Melksham—
Murray, T. R. M.

Melton Constable—
Marriott, W. M.

Middlesbrough—
Bell, C. L. M.
Bell, Sir L. M.
Chambers, T. H. W. M.
Cooper, A. M.
Downey, A. C. M.
Harrison, J. H. M.
James, E. M.
MacCurrach, D. C. A.M.
Marshall, F. H. M.
Naylor, T. H. M.

Middlesbrough (*cont.*)—
Panton, W. H. M.
Stead, J. E. A.

Middlewich—
Harlock, E. B. M.

Millom—
Vaughan, C. M.

Milton, Northamptonshire—
Alexander, E. D. M.

Newark—
Abbott, T. M.
Boreham G. H. G.
Bott, W. S. A.M.
Dow, J. W. M.
Josselyn, E. G.
Ransome, A. M.
Yates, D. R. M. G.

Newcastle-on-Tyne—
Billetop, T. C. M.
Black, W. M.
Bulmer, J. M.
Chater, J. R. M.
Clatworthy, W. A. A.M.
Cochrane, W. M.
Coote, A. M.
Engelbach, C. R. F. G.
Forster, A. L. M.
Hedley, R. M.
Hedley, W. S. G.
Holmes, J. H. M.
Hunter, G. L. M.
Jackson, R. C. M.
Jameson, J. M.
Lawrence, H. M.
Laws, W. G. M.
Mackessack, H. G.
Marshall, F. C. M.
Marshall, F. T. G.
Mountain, W. C. M.
Philipson, J. G.
Philipson, W. G.
Proctor, C. F. M.
Ridley, J. C. M.
Ridley, J. C., Jun. A.M.
Rolf, G. A.M.
Scott, E. G.
Scott, W. A.
Smith, W. M.
Spencer, J. W. M.
Swinburne, M. W. M.
Taverner, H. L. A.M.
Taylor, G. S. G.
Trail, J. M.
Tweedy, J. M.
Wallace, J. M.
Watson, H. B. M.
Watson, T. J. M.
Westmacott, H. A. M.
Westmacott, P. G. B. M.
Woodger, P. B. A.M.
Young, J. M.
Younger, R. M.

Newhaven—
Fisher, H. B. M.

Newport, Essex—
Macallan, G. M.

Newport Pagnel—
Moncrieff, R. W. A.M.

New Shildon—
Copperthwaite, R. A. M.

Newton Abbot—
Giles, B. M.

Northampton—
Atherton, E. S. A.M.
Grose, A. M
Smith, W. A. A.M.

Northfleet—
Taylor, C. P. A.M

Northwich—
Boyd, W. A.M.
Howitt, J. J. M.
Yarwood, W. J. M.

Norwich—
Banister, A. N. M.
Howard, H. J. G.
Marshall, L. P. A.M.
Pillow, E. M.
Stonebridge, A. W. G.

Nottingham—
Alliott, J. B. M.
Bexon, R. A. G.
Bond, G. C. M.
Carrack, C. M.
Cave, H. A.M.
Cleaver, A. M.
Cowen, E. S. M.
Cowen, G. R. M.
Crosta, L. W. M.
Fisher, P. M.
Fowler, G. M.
Goodall, F. H. G.
Hind, E. A.
Hodgson, W. J. G.
Hughes, G. D. M.
Hunt, W. M.
Kay, G. M.
Meggitt, G. T. A.M.
Miller, J. S. M
Mills, G. P. M.
Paton, J. M. C. M.
Phillipps, J. A.M.
Potter, W. H. M.
Reader, R. M.
Robinson, Prof. W. M.
Sanderson, H. W. G.
Sheldon, H. C. M.
Smith, H. W. A.M.
Smith, I. M.
Smith, J. B. M.
Taylor, J. M.
Taylor, W. M.
Turner, T. N. M.
Turney, Sir J. M.
Wardle, F. H. A.M.
Westmoreland, J. W. H. M.

Nuneaton—
Kershaw, T. E. M.

Oakengates—
Brown, C. A. G.

Old Charlton—
Haslam, S. B. G.

Oldham—
Ainley, H. M.
Charlesworth, S. M.
Dodd, J. M.

Oldham (*cont.*)**—**
Dronsfield, J. A.M.
Dronsfield, W. M.
Haigh, N. N. M.
Hall, H. P. M.
Howarth, W. M.
Mannock, J. J. A.M.
Platt, S. R. M.
Taylor, R., Jun. M.
Whittaker, J. M.

Ossett—
Smith, G. R. A.

Oswestry—
Hawkins, E. S. G.
Jones, H. E. M.

Oxford—
Evetts, W., Jun. A.M.

Penrith—
Dowson, E. C. H. A.M.

Penryn—
Donald, D. B. A.M.

Penzance—
Corin, P. B. M.
Holman, F. M.

Perranporth—
Dawe, J. N. G.

Peterborough—
Rouse, F. M.
True, R. A. A.M.
Turner, E. W. G.

Pinner—
Inglis, W. R. H. A.M.

Plumstead—
Butter, H. J. M.
Low, R. M.
Pirie, G. M.
Topple, C. J. M.

Plymouth—
Back, A. C. L. M.
Furness, C. M.
Neal, R. H. B. A.M.
Robinson, C. A. M.
Russell, W. R. A.M.
Whitelock, W. H. A.M.

Pontefract—
Nicholls, P. A.M.

Poole—
Scanlan, H. E. A.M.

Portland—
Elford, E. J. M.
Moore, W. L. M.

Portsmouth—
Anderson, A. L. A.M.
Plant, D. T. A.M.

Preston—
Bowman, H. M.
Bowman, H. E. G.
Conner, J. M.
Dryden, T. M.
Dryden, W. A.M.
Fowler, A. F. M.
Iddon, J. M.
Norris, W. M.

Reading—
Brown, G. W. M.
Dunlop, P. M.
Meaden, N. M.
Routh, W. P. M.
Stephenson, G. R. M.
Sutton, H. R. A.M.

Redditch—
Smith, R. W. M.

Retford—
Jenkins, W. J. M.

Rickmansworth—
Waterlow, D. S. A.

Rochdale—
Backhouse, J. A.M.
Carter, F. A.M.
Fielden, J. P. M.
Kershaw, G. A.M.
Liebert, H. A. M.
Ogden, C. C. A.M.
Porritt, L. A. M.
Robinson, C. J. M.
Robinson, T. N. M.
Wilkinson, F. G.

Rochester—
Aveling, T. L. M.
Marks, G. C. A.M.
Neate, P. J. M.
Senior, G. G.
Watson, J. B. M.

Rochford—
Hollick, A. S. A.M.

Rotherham—
Baker, H. G. A.M.
Buttenshaw, G. E. A.M.
Chrimes, C. E. A.
Dick, F. W. M.
Dyson, R. M.
Green, T. M.
Jenkins, E. J. G.
Wilson, J. C. A.M.
Winstanley, F. A. A.M.

Rugby—
Blyth, E. B. G.
Briggs, E. R. A.M.
Cash, E. W. A.M.
Faulkner, F. C. G.
Fox, E. J. A.M.
Robinson, M. H. M.
Sankey, Captain H. R. M.
Wingate-Saul, A. W. A.M.

Runcorn—
Allen, P. R. M.
Cullen, W. H. M.

St. Albans—
Cooper, T. A.M.
Peake, R. C. A.

St. Anne's-on-Sea—
Walsh, T. A.M.

St. Helens, Lancs.—
Brearley, B. J. M.
Brearley, F. T. M.

St. Helens, Lancs. (*cont.*)
Cook, J. J. M.
Daglish, H. B. M.
Hollingsworth, B. G.
Hollingsworth, E. M. A.M.
Jenkinson, T. M.
Lackland, J. J. M.
Smith, W. M.
Swallow, J. A.M.
Vaux, W. M.
West, L. M.

St. Ives—
Trueman, T. B. M.

St. Just—
Williams, N. T. M.

St. Margarets-on-Thames—
Pashby, A. H. G.

Salcombe—
Halstead, A. F. M.

Salford—
Adams, E. M.
Bailey, Sir W. H. M.
Bates, H. M.
Coventry, T. A.M.
Donovan, E. W. M.
Gresham, H. E. M.
Gresham, J. M.
Hodgson, W. M.
Kiernan, G. M.
Larmuth, J. H. A.M.
Larmuth, W. O. A.M.
McKerlie, J. A.M.
Morris, J. M.
Oliver, T. M.
Shaw, J. M.
Smith, R. A. M.
Trafford, A. A.M.
Widdowson, J. H. M.
Woods, W. H. M.

Sandbach—
Armitstead, H. G.

Scarborough—
Brogden, T. M.
Gibb, M. S. G.

Sevenoaks—
Hammond, W. J. M.
Humphrey, F. G. G.

Sheerness—
Jacobs, Lieut. J. J. M.

Sheffield—
Addy, G. M.
Alcock, A. E. A.M.
Alleard, H. M.
Allen, W. E. A.
Anderson, T. S. M.
Askham, J. U. M.
Askham, P. U. M.
Bainbridge, E. M.
Bashforth, A. M.
Beck, I. M.
Beckett, J. E. G.
Bennison, W. C. A.
Bland, F. M.
Boulden, F. A.M.

Sheffield (*cont.*)—
Capron, A. J. M.
Cleland, W. M.
Cook, G. N. G.
Cooper, H. M.
Craven, J. A. M.
Crosland, J. M.
Davidson, A. M.
Davy, D. M.
Dewhurst, J. H. M.
Fawcett, P. W. A.M.
Fedden, S. E. M.
Fell, A. L. C. M.
Firth, A. M.
Fletcher, J. E. A.M.
Forster, R. G.
Foster, G. A.
Fryer, T. J. A.M.
Gibbins, J. E. A.M.
Hadfield, R. A. M.
Halcomb, S. B. M.
Hartley, W. A. M.
Hawksley, C. W. A.M.
Hawksley, G. W. M.
Hill, A. P. A.M.
Hodges, P. M.
Hollingsworth, A. A. A.M.
Howell, J. B. M.
Howell, S. E. M.
Hoyle, J. R. M.
Jackman, J. A.
Johns, C. M.
King, E. A.M.
Lash, H. W. A.M.
Laycock, W. S. M.
Mappin, F. G.
Mappin, Sir F. T. M.
Matthews, T. B. A.
Meggitt, S. N. A.
Miller, W. T. W. G.
Nash, T. M.
Newton, S. B. M.
Ockendon, W. M.
Osborn, W. F. G.
Palmer, A. A.M.
Platts, W. A.M.
Radcliffe, W. M.
Radford, R. H. M.
Ripper, Prof. W. M.
Robinson, S. J. M.
Sandeman, E. M.
Sawyer, C. P. A.M.
Snow, J. A.M.
Talbot, E. G.
Thompson, H. A.M.
Tozer, E. S. A.
Unwin, M. E. A.M.
Vickers, A. M.
Vickers, T. E. M.
Walker, C. C. A.M.
Ward, S. A. M.
Whale, R. A. A.M.
Wild, A. G. A.M.
Wilson, Sir A. M.
Winder, C. A. M.
Yardley, W. H. A.M.
Young, S. J. M.

Shipley, Yorks.—
Asquith, W. G. A.M.
Burton, C. K. G.
Parkinson, E. A.M.
Parkinson, J. M.

Shoreham—
Stow, G. G.

Shortlands—
Townend, S. A.M.

Shrewsbury—
Johnston, C. M. A.M.

Snodland—
Taylor, T. A.M.

Southall—
Asplen, B. M.
Sanders, H. C. M.

Southampton—
Bosley, W. J. A.M.
Day, G. C. M.
Mayes, H. G.
Tebbutt, S. M.
Wallau, F. P. M.
Wimshurst, J. E. M.

South Bank—
Evans, D. M.

Southend-on-Sea—
Hutchison, P. G.

South Godstone—
Tartt, W. M.

Southport—
Hilton, F. M.
Scotter, R. H. M.

South Shields—
Readhead, R. M.

Sowerby Bridge—
Milligan, W. S. M.
Pollit, E. E. M.

Stafford—
Baguley, E. E. M.
James, H. H. M.

Stalybridge—
Balkwill, A. J. M.
McDonald, W. G.

Stamford—
Blackstone, E. C. M.

Stirchley—
Morris, W. M.

Stockport—
Atkinson, J. M.
Bellamy, A. R. M.
Carrod, H. A.M.
Catmur, T. S. A.M.
Chorley, R. A.M.
Firth, J. A.M.
Harlow, B. S. A.M.
Horsfield, R. M.
Scott, F. W. M.
Taylor, E., Jun. A.M.
Taylor, J. M.

Stockton-on-Tees—
Allan, G. M.
Anderson, W. M.
Beard, B. M.
Clark, H. M.
Warner, A. W. A.
Wrightson, Sir T. M.

Stoke-on-Trent—
Freeman, W. W. A.M.
Longbottom, L. M.

Stony Stratford—
Hayes, E. M.

Stourbridge—
Attwood, J. M.
Cleverly, W. B. A.M.
Jones, W. M.
Marten, E. B. M.

Stourport—
Baldwin, A. M.
Lucy, A. J. M.

Stroud, Glos.—
Alder, G. F. A.M.
Humpidge, J. D. M.
Jones, S. G. M.
King, H. J. H. A.M.
Sargeant, E. F. M.
Smith, T. G. M.

Sudbury, Suffolk—
Hayward, T. W. A. M.

Sunbury-on-Thames—
Smail, C. G. A.M.

Sunderland—
Armstrong, W. I. M.
Buckwell, G. W. M.
Clark, G. M.
Dickinson, J. C. M.
Dickinson, J. M.
Doxford, R. P. M.
Mills, W. M.
Rickaby, A. A. M.
Snell, J. F. C. M.
Thompson, R. C. M.
Turnbull, W. A. G.
Wake, H. H. M.
Warren, W. M.

Surbiton—
Wrinch, H. E. H. A.M.

Sutton, Surrey—
Forward, E. A. G.
Robins, G. M. M.
Young, W. A.M.

Swanscombe—
Cheffins, H. W. J. A.M.

Swindon—
Churchward, G. J. M.
Dean, W. M.
Hogarth, T. O. M.
Kersey, A. T. J. A.M.
King, H. C. M.
Morgan, H. F. S. G.
Shepherd, J. H. G.
Stanier, W. A. A.M.
Thomas, L. R. M.
Waister, W. H. M.
Williams, W. H. M.
Wright, F. G. M.

Tamworth—
Willis, E. T M.

Teddington—
Anderson, H. W. M.
Oldham, H. G. V. A.M.
Wort, W. E. A.M.

Thetford—
Burrell, C., Jun. M.
Millington, F. H. M.
Wilson, W. C. M.

Thirsk—
Bamlett, A. C. M.

Tipton—
Chamberlain, J. G. A.
Chambers, E. J. M.
Howl, E. M.

Torquay—
Cotton, G. B. G.
Houghton, J. C. A. M.
Ingham, W. M.

Totteridge—
Newman, W. H. A.M.

Tunbridge Wells—
Salomons, Sir D. L. A.

Twickenham—
Sandford, J. A.M.
Stenning, H. A. M.
Trueman, T. B. M.

Uxbridge—
Salis, H. R. de A.M.

Wakefield—
Childe, H. S. M.
Green, Sir E. M.
Longbotham, R. H. M.
Vernon, W. H. A.M.

Walberswick—
Goulty, W. R. M.

Wallingford—
Duvall, C. A. M.

Wallsend—
Woodhouse, W. B. A.M.

Walmer—
Lapage, R. H. M.

Walsall—
Bullock, J. H. M.
Forbes, P. A. M.
Lunt, C. T. M.
Marshall, T. A.M.
Micklewright, W. M.
Talbot, W. J. A.M.

Walton-on-Thames—
Faulkner, V. G.
Hill, J. K. M.
Jenkin, C. J. A.M.

Warrington—
Atherton, T. M.
Atherton, W. H. G.
Bleckly, J. J. M.
Deas, J. M.
Dixon, R. M.
Hogg, W. G.
Massey, E. A.M.
Purse, F. W. G.

Warwick—
Hewlett, A. M.
Williams, A. E. A.M.

Watford—
Blackburn, J. M.
Rogers, H. J. M.
Smith, G. A. G.

Wednesbury—
Conaty, G. M.
Hawksworth, F. S. A.M.
Horton, E. M.
Jacks, T. W. M. M.
Oates, A. J. A.M.
Smallman, H. S. M.
Spencer, J. M.
Spencer, T. H. M.
Thomas, H. R. A.M.
Williams, R. M.

Wellingborough—
Mather, G. R. M.

Wellington, Salop—
Groom, R. A. M.
Mansell, W. R. M.
Pointon, J. E. A.M.

Wellington, Somerset—
Sparkes, S. H. M.

Welwyn—
Wingfield, C. H. M.

West Bromwich—
Braithwaite, R. C. M.
James, A. A. A.
Kenrick, G. H. M.

West Hartlepool—
Cunliffe, T. A. A.M.
Dawson, J. E. G.
Fothergill, J. R. M.
Williams, J. B. M.
Withy, H. M.

West Malling—
Chittenden, E. B. M.

Weybridge—
Bennett, P. M. A.M.
Favell, T. M. M.

Weymouth—
Powell, E. B. A.M.

Widnes—
Brown, B. M.
Duff, E. J. M.
Houghton, R. J. M.

Wigan—
Geach, F. S. M.
Percy, C. M. M.
Percy, F. A.M.
Ross, J. M.
Walker, J. S. M.

Wimbledon—
Lee, W. G.

Wimborne—
Ross, F. G. A.M.

Winchester—
Haines, C. J. M.
Lakin-Smith, C. G.

Windsor—
Marsden, A. A.M.

Wingate—
Armstrong, W., Jun. M.

Wolsingham—
Snowdon, J. A. M.
Stobart, H. G. A.M.

Wolverhampton—
Britten, T. A.M.
Cattell, W. A.M.
Down, P. G.
Green, H. H. R. G.
Griffiths, H. G.
Hemingway, R. L. G.
Lucy, E. E. M.
Minors, E. G.
Murray-Morgan, E.H. A.
Newton, P. G.
Parker, T. M.
Parker, T. H. M.
Robinson, J. A. M.
Smith, A. A.M.
Smith, D. M.
Stanger, G. H. M.
Stubbs, H. A.M.
Thompson, J. M.

Wolverton—
Park, C. A. M.

Wooburn—
Harris, W. R. A. A.M.
Reeves, C. I. G.

Woodford—
Clarke, L. T. A.M.

Woolwich—
Bate, Lt.-Col. C. M. M.
Brown, W. M.
Carnegie, D. M.
Carnegie, F. A.M.
Carnegie, W. A.M.
Dean, F. W. C. M.
Donaldson, H. F. M.
Dumas, R. A.M.
Ledingham, J. M. M.
Ryan, Dr. M.
Smith, H. L. A.M.
Smith, L. L. A.M.
Travis, H. M.
Turton, W. H. M.

Worcester—
Deacon, R. W. M.
Urwick, A. J. M.

Workington—
Kirk, H. M.
Milburn, J. M.
Price, J. M.
Williamson, R. M.

Wotton-under-Edge—
Chapman, A. M.

Yeovil—
Petter, P. W. A.M.

York—
Close, J. M.
Collinson, A. M.
Humphreys, W. H. A.M.
Nelson, J. M.
Stamer, A. C. M.
Windsor, A. W. G.

IRELAND.

Ballymoney—
Bradshaw, G. T. M. M.

Belfast—
Andrews, T. M.
Chambers, R. M. M.
Combe, A. M.
Davidson, J. S. G.
Davidson, S. C. M.
Dobson, A. M.
Elliott, A. G. G.
Elliott, G. M.
Ferguson, W. D. M.
Fforde, W. J. A.M.
FitzGerald, Prof. M. F. M.
Grant, D. J. A.M.
Grant, W. A.M.
Horner, J. M.
MacColl, H. M.
Malcolm, B. M.
McCowen, V. A. H. M.
Moore, T. L. M.
Pirrie, The Right Hon. W. J. M.
Pratten, W. J. M.
Reynolds, W. F. M.
Travers, E. J. M.
Ward, F. A. A.M.
Wilson, A. B. M.
Wilson, W. H. M.
Wolff, G. W. M.
Yeames, J. L. A.M.

Bessbrook—
Barcroft, H. A.
Hardy, W. A.M.

Carrickfergus—
Pirrie, J. B. A.M.

Carrickmacross—
Smyth, R. H. G.

Castletown Berehaven—
Waldron, P. L. M.

Cork—
Merrick, R. M.
Price, J. M.
Robinson, J. D. M.
Smith, W. M. M.

Doagh—
McMeekin, A. A.M.

Donabate—
Prockter, F. M. A.M.

Dublin—
Bevis, A. W. M.
Blissett, P. T. A.M.
Byrne, J. J. M.
Challenger, G. R. A.M.
Cluff, R. A.M.
Coey, R. M.
Cronin, R. M.
Fleischer, P. A.M.
Geoghegan, S. M.
Hignett, A. H. M.
Holliday, J. M.
Hope, J. B. M.
Jameson, G. M.
Kennan, W. T. A.
MacGarvey, H. M.
Maunsell, R. E. L. M.
Meeredy, J. A.
Miller, F. M.
Newbigging, J. A.M.
Pigot, T. F. M.
Prosser, R. W. O. G.
Ross, W. M.

Dublin (*cont.*)**—**
Spence, A. W. M.
Spence, W. M.
Wakefield, W. M.
Waring, H. G.
Warren, F. F. M.
Wigham, J. R. M.

Dundalk—
Bigger, C. A.M.
Clifford, C. M.
Logan, R. P. T. M.
Manisty, E. M.

Larne Harbour—
Sutherland, J. A.M.

Limerick—
Gadd, W. M.
Lee, R. J. M.
Lee, S. E. M.

Londonderry—
Craig, A. M.

Moate—
Goodbody, R. M.

Monkstown—
Walpole, T. M.

Mullingar—
Martyn, S. W. A.M.

Neath—
Powell, T. M.

Passage West—
Mills, A. E. A.M.

Raheny—
Cairnes, F. E. M.

SCOTLAND.

Aberdeen—
Bell, J. A. A.M.
Dalgarno, J. R. M.
Jackson, W. M.
Mowat, T. M.
Nicol, R. G. M.
Smith, J. S. A.M.
Thomson, J. W. A.M.

Airdrie—
Barman, H. D. D. M.
Rew, J. H. M.

Alloa—
Finlayson, D. A.M.
Spence, W. L. M.

Arbroath—
Fraser, P. M.

Carnoustie—
Orr, C. R. M.

Carron—
Hamilton, T. F. A.M.

Coatbridge—
Cowie, W. A.M.
Finlayson, F. M.
McGregor, J. A.M.

Coldstream—
Roberts, B. O. A.M.

Dumbarton—
Brock, W. M.
Brown, J. P. A.M.
Paul, M., Jun. M.

Dundee—
Berry, T. A.M.
Lindsay, R. M.
Lindsay, W. R. M.
MacDonald, D. J. M.
Mackail, J. H. A.M.
Murray, P. B. A.M.
Thomson, A. M. G.

Dunoon—
Miller, A. M.

Edinburgh—
Allan, F. W. G.
Beare, Prof. T. H. M.
Bertram, D. N. M.
Brown, A. B. M.
Clark, T. A. M.
Colam, W. N. M.
Cooper, W. M.
Crawford, G. W. A.M.
Dadge, N. A.
Drake, A. J. A.M.
Drew, A. M.
Gulliver, G. H. G.
Henderson, R. A.M.
Irvine, A. J. A.M.
Lumsden, T. T. M. M.
McFarlane, J. M.
McGregor, J. G.
Purves, W. T. A.M.
Stevenson, D. A. M.

Errol—
Morton, D. A. A.M.

Forfar—
Ewen, J. T. M.

Gartsherrie—
Strathern, A. G. A.M.

Glasgow—
Aitken, H. W. M.
Alley, S. E. M.
Arnot, W. M.
Arrol, Sir W. M.
Bain, W. N. M.
Barr, Prof. A. M.
Barrow, J. M.
Baxter, P. M. M.
Beardmore, W. M.
Biles, Prof. J. H. M.
Boyd, J. T. M.
Boyd, J. W. M.
Cartmell, J. M. A.M.
Cater, J. M. A.M.
Clark, J. L. A.M.
Clarkson, J. M.
Cochrane, J. M.
Cooper, T. L. R. M.
Couper, S. M.
Davies, C. M. M.
Davison, R. M.
Dixon, J. A.M.
Dixon, W. M.
Drummond, W. M.
Dübs, C. R. M.
Foster, J. M.
Foulis, W. M.
Gaze, E. H. J. M.
Gibson, G. H. A.M.
Goudie, W. J. A.M.
Grant, H. A.M.
Grant, T. M. M.
Hall-Brown, E. M.
Harvey, R. M.
Herriot, W. S. M.
Holmström, C. A. M.
Hunter, J. C. G.
Jackson, H. D. A.M.
Knight, C. A. M.
Leitch, A. A.M.
Lemkes, C. R. L. A.
Longbottom, J. G. A.M.
MacBrayne, L. A.
MacDonald, J. M.
MacLay, Prof. A. M.
MacLellan, J. A. M.
Macmillan, C. C. M.
Maitland, C. M.
Mascall, A. E. A.M.
McFarlane, G. M.
McIntyre, J. H. A. M.
McKinnel, W. A.
McNeil, J. M.
Millar, J. M.
Morton, D. H. M.
Muirhead, D. A.M.
Munro, R. D. M.
Munyard, A. A.M.
Philip, W. L. M.
Pickering, J. M.
Reid, A. T. M.
Reid, H. M.
Reid, J. M.
Reid, R. S. M.
Richardson, J. S. M.

Glasgow (*cont.*)**—**
Riekie, J. M.
Robinson, J. F. M.
Ross, W., Jun. M.
Rowan, J. M.
Shanks, W. M.
Sharp, J. H. M.
Smith, A. D. M.
Spencer, H. B. M.
Statham, F. B. A.M.
Stewart, A. M.
Stewart, D. M.
Thomson, J. M.
Tullis, D. K. M.
Turnbull, A. M.
Turnbull, J., Jun. M.
Turner, W. A.M.
Urie, W. M. M.
Watkinson, Prof. W. H. M.
Williamson, J. M.
Wilson, W. H. M.
Yerbury, F. A. G.
Young, J. D. A.
Young, T. M.

Grangemouth—
Robinson, J. M.

Greenock—
Blake, M. M.
Graham, W. A.M.
MacLean, A. S. M.
McLarty, F. M M.
Smart, R. H. M.

Innerleithen—
Tennant, Sir C. M.

Inverness—
Drummond, P. M.

Kilmarnock—
Barr, J. A.
Dunn, H. S. M.
Kennedy, T. M.
Manson, J. M.
Turner, T. M.

Kirkcaldy—
Grant, L. M.

Maybole—
Fox, S. M.

Montrose—
Hale, H. A.M.

Motherwell—
Mackenzie, T. B. M.

Paisley—
Bow, W. M.
Campbell, W. W. M.
Crow, L. A.M.
Drewitt, W. H. A.M.
Dunn, A. M. M.
Hislop, G. R., Jun. A.M.
McGee, W. M.
McLachlan, J. M.
Tannett, J. C. M.
Walmsley, J. M.

Perth—
Pullar, A. E. M.

Renfrew—
Brown, W. M.
Lobnitz, F. M.
McLaren, R. A. M.
Young, W. A. M.

Stewarton—
Love, R. T. A.M.

Tarbolton—
Thomson, J. M. M.

Troon—
Guthrie, W. J. G.

Wishaw—
Steele, J. M.

WALES.

Aberdare—
Lewis, Sir W. T. M.
Treharne, G. A. M.

Blaenavon—
Dayson, W. O. M.

Bwlch—
Ashworth, H. M.

Caerleon—
Richards, E. W. M.

Cardiff—
Andrews, T. M.
Cambridge, H. M.
Cameron, J. M.
Cryer, A. A.
Dawson, E. M.
Dobbs, H. T. A.M.
Edwards, H. F. M.
Elliott, Dr. A. C. M.
Ellis, A. M.
Fisher, H. O. M.
Flindt, E. J. M.
Frisby, A. G. G.
Gard, G. R. G.
Hallett, J. H. M.
Hosgood, J. H. M.
Hosgood, O. S. M.
Hubback, C. A. M.
Hunter, C. L. M.
Jordan, E. M.
Lewis, W. T., Jun. G.
Lowdon, T. M.
Marquand, A. J. M.

Cardiff (*cont.*)**—**
Monroe, R. M.
Morgan, D. J. M.
Patterson, A. M.
Pattison, J. M.
Riches, T. H. M.
Schontheil, T. A.M.
Sibbering, G. T. M.
Strachan, J. M.
Thain, W. A. A.M.
Thomas, N. S. G.
Williams, D. T. A.M.
Woodhead, W. R. M.

Carnarvon—
Hayes, J. M.

Dowlais—
Martin, E. P. M.

Llanberis—
Pritchard, H. M.

Llandudno—
Joyce, T. W. A.M.

Llanelly—
Waddle, H. W. M.

Llangollen—
Edwards, J. G.

Mold—
Buddicom, H. W. M.

Newport, Mon.—
Laurie, L. G. M.

Newport, Mon. (*cont.*)**—**
Phillips, C. D. M.
Rafarel, F. W. M
Smyth, W. S. M.
Stevens, A. J. M.
Wyman, R. A.M.

Pontypridd—
Gregory, H. M. M.
Lenox, G. D. G.
Thomas, A. L. A.M.

Portmadoc—
Isaac, R. M.

Port Talbot—
Cleaver, W. A.M.
Hosgood, W. J. M.
Pearson, C. D. G.

Rhayader—
Suffield, C. A. A.M.

Ruabon—
Coombs, J. A. A.M.

Swansea—
Hosgood, T. W. G.
Peel, C. E. M.
Player, J. M.
Ruthen, C. T. A.M.
Wright, J. R. M.

Tondû—
Harvey, J. B. M.

Ynysmudw, Glam.—
Freeman, B. G.

CHANNEL ISLANDS.

St. Sampson's, Guernsey—
Hicks, F. G. A.M.

St. Helier's, Jersey—
Aubin, P. A. G.

NAVAL ENGINEERS.

Andrew, G. E. M.
Bennington, J. W. M.
Bramsdon, W. H. M.
Carter, E. M.
Cornish, E. M.
Davis, R. M.
Gibson-Sugars, J. S. M.
Hill, W. S. M.
Hurst, I. E. M.
Kempt, A. R. A.M.
Liversedge, H. T. M.
Lonnon, W. M.
Markham, R. G. L. M.
Michell, W. H. G.
Paterson, J. A. M.
Simmons, G. T. M.
Stocker, P. M.
Taylor, C. G. M.
Thomsett, F. D. M.
Thumwood, L. E. M.
Veen, V. A. A. ter M.
Venning, A. J. A.M.
Venning, T. A. A.M.

FOREIGN COUNTRIES.

AFRICA.

BRIT. CEN. AFRICA—

Blantyre—
Maclagan, R. M.

BRIT. EAST AFRICA—

Mombasa—
Bremner, B. L. G.
Sandiford, C. M.

CAPE COLONY—

Cape Town—
Albrecht, J. A. A.M.
Banham, C. P. M.
Beatty, H. M. M.
Denham, J. M.
Dowson, R. M. A.M.
Edwards, W. C. M.
Gibbs, J. H. M.
Goodman, F. A. G.
Johnson, H. H. G.
Meintjes, L. S. A.
Pickering, F. A.M.
Pollard, Lieut. F. J. A.M.
Smith, S. A.M.
Wilson, J. M. G. A.

East London—
Davies, J. H. M.

Kimberley—
Goffe, E. A.M.
Quentrall, T. M.
Vines, C. G. A.M.

Port Alfred—
Bradley, A. A. G.

Port Elizabeth—
Bull, T. P. A.M.
Farrar, S. H. M.
Hambly, J. M.
Miller, H. W. M.

Queenstown—
Almond, M. A.M.

Uitenhage—
Duncan, W. A.M.
Malloch, W. F. M.
Thornton, H. R. M.

EGYPT—

Alexandria—
Alderson, C. A. H. A.M.
Alderson, G. A. A.M.
Alderson, G. B. M.
Allen, F. M.
Blagden, H. R. C. A.M.

Alexandria *(cont.)*—
Elsworth, J. F. M.
Sheppard, H. G. M.

Cairo—
Bain, G. M.
Ball, J. A.M.
Calvi, A. U. G.
Harrison, Major G. H. M.
Johnstone, Major J. H. L'E. M.
Western, H. G.
Wilson, D. E. A.M.
Wilson, J. M.

Damanhour—
Peacock, F. M.

Shendy—
Stenning, H. W. A.M.

Tantah—
Peacock, J. A. W. M.

NATAL—

Durban—
Enock, D. A.M.
Heydeman, H. G. J. A.M.
Hogg, J. T. A.M.
Milne, W. M.
Robinson, J. J. M.
Scott, J. M.
Scott, T. A.M.
Shadwell, L. H. A. A.M.
Stobie, G. M.
Titren, G. E. de K. G.

Northdene—
Harper, N. C. T. A.M.

Port Natal—
Thomson, G. M.

ORANGE RIVER COL.—

Bloemfontein—
Carolin, E. M. A.M.

Kroonstad—
Scott, R. A.M.

RHODESIA—

Bulawayo—
Fletcher, H. C. A.M.
Griffiths, H. D. M.
Jeffreys, R. R. V. A.M.
Johnson, G. A.M.

Salisbury—
Roberts, C. T. A.M.
Roberts, P. R. A.M.
Warton, R. G. F. A.M.

Umtali—
Bower, H. A. R. G.
Groves, M. A.M.
Warren, W. M.

TRANSVAAL—

Boksburg—
McBean, J. A.M.
Palmer, H. B., Jun. A.M.

Germiston—
Parry, E. H. M.
Pettit, A. E. A.M.

Johannesburg—
Adams, S. R. A.M.
Bartley, B. C. A.M.
Begbie, W. A.M.
Behr, H. C. M.
Berry, J. F. M.
Blane, W. M.
Briggs, H. A.M.
Britten, T. J. M.
Burden, A. G. A.M.
Cowell, J. R. M.
Daintree, T. E. M.
Epton, W. M. A.M.
Fowler, P. M. A.M.
Frerichs, J. A. A.M.
Hosken, R. M.
Hutton, W. A.
Messer, E. H. A.M.
Mills, J. A. A.M.
Poore, G. B. M.
Reunert, T. M.
Spencer, F. H. A.
Stokes, F. T. G.
Vaughan, J. A. M.
Wood, W. H. A.M.

WEST COAST—

Axim—
Smith, R. B. G.

Freetown—
Stone, F. H. M.

Lagos—
Pott, G. T. A.M.

Sekondi—
Hyland, J. F. M.

ZULULAND—

Eshowe—
Ward, J. P. A.M.

AMERICA (CENTRAL).

GUATEMALA—
Akers, C. H. M.

MEXICO—
Chihuahua—
Stephenson, J. G. L. M.

Mexico City—
Carter, H. F. M.
Lea, W. A. M.
Williams, A. A.M.

Puebla—
Greaven, L. M.

WEST INDIES—

Barbados—
Brocklehurst, G. M.
McQueen, J. C. M.
Simpson, D. G. A.M.
Simpson, N. de L. A.M.

Cuba—
Keyworth, T. E. M.
Morton, J. H. A.M.
Wolfe, J. E. M.

Porto Rico—
Graham, R. M.

Trinidad—
Peet, J. M.
Wallace, J. M.

AMERICA (NORTH).

BRIT. N. AMERICA—

British Columbia—
Barrow, A. R. M. G.
Croft, H. M.
Crofts, J. C. T. M.
Walkem, G. A. A.M.

Montreal—
Brown, F. R. F. M.
Coker, E. G. M.
Flint, L. R. A.M.
Johnson, L. R. M.
Redpath, F. R. M.
Wallis, H. M.

Ontario—
Barnett, J. D. M.

UNITED STATES—

Baltimore—
McAll, H. W. A.M.

Bridgeport—
House, H. A. M.

Cambridgeport—
Leavitt, E. D., Jun. M.

Charlestown—
Hall, A. F. M.

Chicago—
Hunt, R. W. M.

Cleveland—
Boyd, C. A. M.
Swasey, A. M.
Wellman, S. T. M.

Jacksonville—
Angas, W. M. M.

Libby—
West, H. E. A.M.

Little Boar's Head—
Jaques, Capt. W. H. M.

Los Angeles—
Chaffey, G. M.

Madison—
Johnson, F. A. A.M.

Matteawan—
Blackburn, A. H. M.

Middlesbrough—
Bartlett, J. H. M.

New York—
Bulkley, H. W. M.
Cox, E. H. A.M.
Enock, J. K. G.
Foster, E. H. M.
Hart, F. M.
Henning, G. C. M.
Herschmann, A. J. A.M.
O'Connor, J. F. G.
Stockton, C. A.M.
Worthington, C. C. M.

Norfolk—
Roberts, T. H. M

Philadelphia—
Given, E. C. A.M.
Sellers, Dr. C. M.
Sellers, W. M.

Providence—
Mather, W. P. M.

Salt Lake City—
Hayward, R. F. G.

San Francisco—
Eckart, W. R. M.
Moore, J. M.

Taunton—
Greensmith, J. E. M.
Meats, J. T. M.

Thompsonville—
Butcher, J. J. M.

Washington—
Jackling, D. C. A.M.

Worcester—
Morgan, C. H. M.
Wheelock, J. M.

HAWAII—
Williams, J. N. S. M.

AMERICA (SOUTH).

ARGENTINE REP.—

Bahia Blanca—
Lucy, W. T. M.

Buenos Aires—
Abella, J. A.M.
Arteaga, A. de M.
Bocquet, H. C. M.
Bow, J. A.M.
Calastremé, J. C. M.
Fitz-Gerald, J. F. G. A.M.
Garrett, E. A.M.
Goddard, W. H. A.M.
Grant, P. M.
Greaven, A. A. M.
Hicken, T. M.
Saccaggio, P. C. A.M.
Scholes, W. H. M.
Smith, J. W. M.
Tenney, D. A.M.
Wood, T. R. M.
York, F. C. M.

Mendoza—
Hopwood, J. M.

Rosario de Santa Fé—
Maria, H. S. G.

BRAZIL—

Maceio—
Ambler, F. M.
Lovell, D. R. M.

Minas Geraes—
Parker, F. T. G.

Para—
Ward, J. M.

Pernambuco—
Cardozo, F. C. de M. M.
Clark, A. M.
Scott, W. H. M.

Rio de Janeiro—
Deacon, R. D. G.
Mattos, A. G. de G.
Whichello, R. G.

Rio Grande do Norte—
Fripp, S., Jun. A.M.

Rio Grande do Sol—
Bowen, E. M.
Gray, A. C. M.

São Paulo—
Goodier, F. M.
Harrison, W. J. M.
Sheldon, W. J. M.

BRIT. GUIANA—

Berbice—
Parratt, W. H. M.

CHILE—

Iquique—
Gilling, A. H. A.M.
Nicholls, J. M. M.

Junin—
Beven, A. N. M.

Valparaiso—
Budge, E. M.
Slight, G. H. M.

COLOMBIA—

Cana Mines—
Rudder, F. P. A.M.

DUTCH GUIANA—

Nickerie—
Thomson, D. L. A.M.

PERU—

Lima—
Sangster, W. S. A.

URUGUAY—

Monte Video—
Halstead, J. H. M.

VENEZUELA—

Caracas—
Almond, H. J. M.

ASIA.

ARABIA—

Aden—
Still, W. H. M.

BRIT. N. BORNEO—

Labuan—
Ingate, G. J. A. G.

Sandakan—
Girvan, W. A.M.

CHINA—

Hong Kong—
Appleby, G. W. M.
Bailey, W. S. M.
Dixon, W. B. M.
Focken, C. F. M.
Gordon, A. G. M.
Kinghorn, J. W. M.
Kirkwood, J. M.
Murphy, E. O. A.M.
Orange, J. M.
Parlane, W. M.
Ramsay, W. M.

Shanghai—
Blechynden, J. M.
Bunt, T. M.
Groundwater, S. A.M.
Hearson, H. R. M.
Hiller, H. K. M.

Shanghai (*cont.*)**—**
Wood, W. C. M.

Tientsin—
Bourne, T. J. M.
Kwang, K. Y. M.
Thomson, J. C. A.M.

INDIA—

Ahmedabad—
Davison, J. W. M.

Allahabad—
Wasdell, A. A.M.

Amritsar—
Ganga Ram M.

Bankipur—
Walford, F. A.M.

Baroda—
Patel, R. M. A.M.

Bombay—
Ashby, G. M.
Burnside, B. W. A.M.
Dadabhoy, C. M.
Dadina, H. M. M.
Ditchburn, R. M.
Drewet, T. M.

Bombay (*cont.*)**—**
Elsworthy, E. H. M.
English, T. M. M.
Etlinger, G. E. G.
Forbes, D. M. M.
Gawthorne, W. A. A.M.
Hadley, W. P. H. A.M.
Hammett, J. G. M.
Hepworth, J. W. M.
Hudson, W. M.
Jeejeebhoy, P. B. M.
Keightley, A. P. M.
Knowles, J. M.
Lewis, H. W. M.
Longworth, D. M.
Macbeth, J. B. K. M.
Mitchell, J. F. B. A.M.
Shroff, A. B. M.
St. Paul, C. A.M.
Thompson, E. W. G.
Wadia, N. N. M.
Walke, C. N. E. M.
Webb, R. G. M.
Weightman, W. J. M.
Whittell, A. L. M.
Wrench, J. M. M.

Borsad—
Patel, M. B. A.M.

Calcutta—
Abbott, A. H. M.
Dryden, A. M.
Forbes, W. G. L. S. M.
George, J. M. A.M.
Harrison, F. M.
Harwood, R. H. A.M.
James, A. W. M.
McPherson, S. M.
Middleton, H. H. A.M.
Morris, C. M.
Pulman, T. C. M.
Rochat, H. L. A.M.
Ruffle, F. F. A.M.
Scott, R. M.
Sharp, W. G.
Stone, E. H. M.
Whichello, R. E. A.M.

Cawnpore—
Anderson, A. S. M.
Goulstone, E. E. A.M.
Thomson, H. A.M.

Chittagong—
Hawkins, R. S. M.

Colombo—
Bradley, G. T. A.M.
Garratt, J. H. A.M.
Hutson, C. A. M.
Hyde, G. H. M.
Moraes, J. A. G.
Tarver, H. H. G.

Cuttack—
Hughes, R. M. M.

Dibrugarh—
Locket, A. A.M.

Fatehgarh—
Townsend, Major C. C. M.

Gwalior—
Baker, W. H. M.

Howrah—
Shirtliff, F. A.M.
Steele, W. R. M.
Wicks, H. M.

Insein—
Cardew, C. E. M.
Johnson, L. P. M.
Molloy, H. J. M.

Jamalpur—
Browne, T. R. M.
Eborall, C. W. M.
Radley, B. V. A.M.
Tomes, W. J. A.M.
Wood, H. A. M.

Kanchrapara—
Jones, G. E. M.

Karachi—
Cosser, T. M.
Davidson, J. M. M.
Herman, B. R. M.
Markwick, A. E. M.
Moore, J. M.

Lahore—
Atkinson, A. M.
Winmill, G. M.

Lucknow—
Keatinge, S. A. J. A.M.

Madras—
Bamford, R. G. M.
Bell, Major C. T. M.
Chatterton, Prof. A. M.
Emery, J. I. G.
Harris, H. E. A.M.
James, W. H. M.
Loane, S. J. M.
Mansfield, A. A.M.
Mansfield, O. G.
Mansfield, W. A.M.
Phipps, C. E. M.
Pillai, V. P. D. M.
Price, R. A.M.
Spring, F. J. E. M.

Mhow—
Addis, F. H. G.

Morvi—
Burke, M. J. M.

Mozufferpore—
Williams, W. H. M.

Mussoorie—
Campbell, A. M.

Mysore—
Borham, W. E. M.
Hincks, J. M. A.M.

Negapatam—
Forbes, G. C. A.M.

Rangoon—
Duncan, N. M.
Macdonald, F. C. M.
McGeorge, J. A.M.
Mutter, W. M.

Rawal Pindi—
Hitchcock, C. M.

Roorkee—
Souter-Robertson, D. M.

Rosa—
Hadengue, C. B. A.M.

Shermadevi—
Muggeridge, H. C. G.

Silchar—
Ede, F. J. M.

Simla—
Buchanan, W. E. A.M.
Lampard, P. A.M.
Mahon, Major R. H. M.

Sitarampur—
Higby, R. G. M.

Sylhet—
Monckton, C. J. A.M.

Toungoo—
Simpson, J. T. M.

Trichinopoly—
Stirling, J. A. M. A.M.

Umballa—
Jones, F. R. M.

JAPAN—

Kobe—
Caswell, S. J. M.
Trevithick, R. F. M.

Nagasaki—
Ito, K. A.M.

Osaka—
Arakawa, S. M.
Atsumi, S. M.
Kikuchi, K. M.
Takatsuji, N. A.M.
Takimura, T. A.M.

Tokyo—
Brindley, H. S. B. A.M.
Dan, T. M.
Fujii, T. M.
Hall, W. S. M.
Hiraoka, H. M.
Mano, Prof. B. M.
Miyabara, J. M.
Nakajima, Y. M.
Shiba, C. A.M.
Shin, T. M.
West, Prof. C. D. M.
White, A. F. M.

Yokohama—
Münster, B. A. M.

JAVA—

Batavia—
Bennett, J. W. M.

Soerabaya—
Campbell, J. M.
Powell, B. N. A.M.
Slight, W. H. M.

PERSIA—

Bagdad—
Reynolds, G. B. M.

SIAM—

Bangkok—
Mackay, J. M.

STRAITS STLMTS.—

Penang—
Hamilton, R. M.
Lawrie, J. M.
Young, R. M.

Perak—
Dodge, S. B. G.
Mate, W. E. A.M.

Singapore—
Corbett, A. J. M.
Coveney, W. C. M.
Dick, J. N. M.
Gebbie, J. M.
Hancock, S. M.
Hill, W. H. G.
Macbean, J. J. M.
Price, C. G. A.M.
Stormont, P. C. M.
Webster, W. M.

Taiping—
Carter, S. A. A.M.
Mills, F. A.M.

TURKEY-IN-ASIA—

Smyrna—
Issigonis, G. D. A.M.

AUSTRALASIA.

NEW SOUTH WALES—

Aberdeen—
Benn, W. W. W. A.M.

Cobar—
Schloesser, R. A.M.

Granville—
Clarkson, E. J. M.
Irons, T. M.

Sydney—
Ahrbecker, H. C. V. M.
Brewster, W. S. M.
Brown, H. M.
Brunton, P. G. M.
Christie, A. M.
Conyers, S. W. M.
Cruickshank, W. D. M.
Cullen, P. J. M.
Cutler, A. E. M.
Davis, J. M.
Fenwick, J. M.
Finlayson, R. W. M.
Franki, J. P. M.
German, W. H. M.
Grimshaw, J. W. M.
Hodgson, G. H. A.M.
Houghton, T. H. M.
How, W. F. M.
Howarth, A. M. M.
Howe, H. B. M.
Kidd, H. M.
Massey, G. M.
McCredie, A. L. M.
Nisbet, W. H. M.
Noakes, W. M. M.
Ritchie, J. M. G.
Selfe, N. M.
Shand, J. M.
Shaw, P. C. W. M.
Sinclair, R. M.

Sydney (*cont.*)—
Thow, W. M.
Turner, W. W. G.

QUEENSLAND—

Brisbane—
Goldsmith, A. J. M.
Griffiths, J. A. M.
Nutt, G. B. M.

Charters Towers—
Carthew-Wright, W. G.

Maryborough—
Wilson, H. M.

Mount Morgan—
Hirst, J. M.

S. AUSTRALIA—

Adelaide—
Ayers, F. G. A.M.
Nichols, H. F. A.M.
Roberts, T. M.

TASMANIA—

Hobart—
Ross, E. S. A.M.

Kelly Basin—
Edleston, A. E. A.M.

Launceston—
Deeble, W. R. M.

VICTORIA—

Ballarat—
Kerr, A. E. C. M.

Melbourne—
Conyers, W. M.
Deakin, B. W. M.

Melbourne (*cont.*)—
Mais, H. C. M.
Mansfield, F. G.
Pearce, T. M.
Pinder, C. R. M.
Shepherd, R. L. M.
Swinburne, G. M.
Swinburne, W. M.
Wood, S. P. M.

W. AUSTRALIA—

Albany—
Hemingway, A. A.M.

Fremantle—
Akroyd-Stuart, H. M.
Denny, J. M.
Quirk, W. M. H. M.
Williams, H. W. M.

Kalgoorlie—
Cruickshank, G. S. A.M.
Holbrow, C. A. A.M.
Walkeden, G. H. M.

Mundaring—
Leslie, W. M.

Perth—
Mathews, C. J. M.
McDonald, J. A. M.

Midland Railway—
Moon, E. R. M.

NEW ZEALAND—

Christchurch—
Scott, H. A.M.
Scott, Prof. R. J. M.

Wellington—
Ferguson, W. M.

EUROPE.

AUSTRIA—

Landeck, Tyrol—
Rieter, E. H. A.M.

Mähren—
Dare, A. N. A.M.

Vienna—
Hardy, J. G. M.

BELGIUM—

Brussels—
Bailly, P. M.
Bika, L. J. M.
Coppée, E. M.
Oakes, Sir R. L. M.
Selby, M. M.

Liége—
Timmermans, F. M.
Trenery, W. P. M.

DENMARK—

Veile—
Knight, A. H. A.M.

FINLAND—

Abo—
Eager, J. E. M.

FRANCE—

Neuilly-sur-Seine—
Marié, G. M.

Paris—
Berrier-Fontaine, M. M.
Bourdon, F. E. M.
Hanning, W. A.M.
Menier, H. M.
Molinos, L. M.
Roux, P. L. A.M.
Sauvage, E. M.
Taylor, M. G.

Rouen—
Windsor, E. W. M.

St. Denis—
D'Albert, C. M.

St. Ouen—
Farcot, P. M.

GERMANY—

Berlin—
Bindemann, H. O. F. A.M.
Grove, D. M.
Jüngermann, C. M.
Pajeken, J. F. M.

Düsseldorf—
Berthiez, C. M.
Boeddinghaus, J. M.
Taggart, W. S. M.

Kalk—
Mount-Haes, A. M.

Mülheim—
Münzel, M. M.

Wurtemburg—
Merrett, J. A. G.

GIBRALTAR—
Andlau, W. F. von M.
Livesey, R. M. A.M.
Osburn, G. V. A.M.
Williams, W. W. M.

GREECE—
Piraeus—
Mastrantonis, P. M.

HOLLAND—
Flushing—
Martin, W. H. M.
Van Raalte, J. M.

Raamsdonk—
Reed, E. C. A.

Rotterdam—
Wilton, B. M.

ITALY—
Milan—
Nathan, A. M.
Rümmele, A. G.

Sicily—
Palermo—
Schofield, G. A. M.

MALTA—
Pogson, A. L. M.
Wright, F. A.M.

MONTE CARLO—
Kershaw, J. M.

PORTUGAL—
Lisbon—
Ambrose, S. P. A.M.
Fish, S. R. M.
Hawkins, L. G. A.M.

Mertola—
Lindsay, Hon. W. A.M.

Oporto—
Ennor, C. J. M.

RUSSIA—
Alexandrov—
Stutzer, W. M.

Baku—
Beck, J. A.M.
Pinkney, T. S. A.M.
Stirling, R. M.

Elizabethgrad—
Davis, F. M. A.M.

Lodz—
Buckley, V. E. M.
Ratcliffe, J. T. M.

Moscow—
Dixon, W. F. M.
Hopper, A. M.
Hopper, J. R. M.
Jarvis, R. A.M.
Johnson, J. W. M.
Urmston, P. A.M.

Odessa—
Platts, J. J. M.

SPAIN—
Alcaracejos—
West, W. P. A.M.

Astillero—
Kensington, J. C. A.M.

Bilbao—
Thorburn, W. M.

Huelva—
Bennie, P. M.
Connell, W. P. A.M.

Madrid—
Aramburu y Silva, F. M.
Greenhill, T. A. M.
Neville, E. H. A.
Phillips, E. G. A.M.
Presser, E. C. A. M.

SWEDEN—
Eskilstuna—
Betts, S. M.

Gothenburg—
Wadham, R. G.

Helsingborg—
Widmark, H. W. M.

SWITZERLAND—
Neuchatel—
Walker, R. H. A.M.

Winterthur—
Sulzer, J. M.

Zürich—
Kapteyn, A. M.

TURKEY—
Constantinople—
Ahmed Pasha, Rear-Admiral M.
Sirri, Lieut. M. A.M.

THE INSTITUTION OF MECHANICAL ENGINEERS.

Memorandum of Association.

AUGUST 1878.

1st. The name of the Association is "THE INSTITUTION OF MECHANICAL ENGINEERS."

2nd. The Registered Office of the Association will be situate in England.

3rd. The objects for which the Association is established are :—

(A.) To promote the science and practice of Mechanical Engineering and all branches of mechanical construction, and to give an impulse to inventions likely to be useful to the Members of the Institution and to the community at large.

(B.) To enable Mechanical Engineers to meet and to correspond, and to facilitate the interchange of ideas respecting improvements in the various branches of mechanical science, and the publication and communication of information on such subjects.

(C.) To acquire and dispose of property for the purposes aforesaid.

(D.) To do all other things incidental or conducive to the attainment of the above objects or any of them.

4th. The income and property of the Association, from whatever source derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association, and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend, bonus, or otherwise howsoever, by way of profit to the persons who at any time are or have been Members of the Association, or to any of them, or to any person claiming through any of them: Provided that nothing herein contained shall prevent the payment in good faith of remuneration to any officers or servants of the Association, or to any Member of the Association, or other person, in return for any services rendered to the Association, or prevent the giving of privileges to the Members of the Association in attending the meetings of the Association, or prevent the borrowing of money (under such powers as the Association and the Council thereof may possess) from any Member of the Association, at a rate of interest not greater than five per cent. per annum.

5th. The fourth paragraph of this Memorandum is a condition on which a licence is granted by the Board of Trade to the Association in pursuance of Section 23 of the Companies Act 1867. For the purpose of preventing any evasion of the terms of the said fourth paragraph, the Board of Trade may from time to time, on the application of any Member of the Association, impose further conditions, which shall be duly observed by the Association.

6th. If the Association act in contravention of the fourth paragraph of this Memorandum, or of any such further conditions, the liability of every Member of the Council shall be unlimited; and the liability of every Member of the Association who has received any such dividend, bonus, or other profit as aforesaid, shall likewise be unlimited.

7th. Every Member of the Association undertakes to contribute to the Assets of the Association in the event of the same being wound up during the time that he is a Member, or within one

year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges, and expenses for winding up the same, and for the adjustment of the rights of the contributories amongst themselves, such amount as may be required not exceeding Five Shillings, or in case of his liability becoming unlimited such other amount as may be required in pursuance of the last preceding paragraph of this Memorandum.

8th. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other Institution or Institutions having objects similar to the objects of the Association, to be determined by the Members of the Association at or before the time of dissolution; or in default thereof, by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter.

Articles of Association.

FEBRUARY 1893.

(*Article* 23 *revised March* 1902.)

INTRODUCTION.

Whereas an Association called "The Institution of Mechanical Engineers" existed from 1847 to 1878 for objects similar to the objects expressed in the Memorandum of Association of the Association (hereinafter called "the Institution") to which these Articles apply;

And whereas the Institution was formed in 1878 for furthering and extending the objects of the former Institution, by a registered Association, under the Companies Acts 1862 and 1867;

And whereas terms used in these Articles are intended to have the same respective meanings as they have when used in those Acts, and words implying the singular number are intended to include the plural number, and *vice versâ*;

NOW THEREFORE IT IS HEREBY AGREED as follows:—

CONSTITUTION.

1. For the purpose of registration the number of members of the Institution is unlimited.

MEMBERS, ASSOCIATE MEMBERS, GRADUATES, ASSOCIATES, AND HONORARY LIFE MEMBERS.

2. The present Members of the Institution, and such other persons as shall be admitted in accordance with these Articles, and none others, shall be Members of the Institution, and be entered on the register as such.

3. Any person may become a Member of the Institution who shall be qualified and elected as hereinafter mentioned, and shall agree to become such Member, and shall pay the entrance fee and first subscription accordingly.

4. The qualification of Members shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

5. The election of Members shall be conducted as prescribed by the By-laws from time to time in force, as provided by the Articles.

6. In addition to the persons already admitted as Graduates, Associates, and Honorary Life Members respectively, the Institution may admit such persons as may be qualified and elected in that behalf as Associate Members, Graduates, Associates, and Honorary Life Members respectively of the Institution, and may confer upon them such privileges as shall be prescribed by the By-laws from time to time in force, as provided by the Articles: provided that no Associate Member, Graduate, Associate, or Honorary Life Member shall be deemed to be a Member within the meaning of the Articles.

7. The qualification and mode of election of Associate Members, Graduates, Associates, and Honorary Life Members shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

8. The rights and privileges of every Member, Associate Member, Graduate, Associate, or Honorary Life Member shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

ENTRANCE FEES AND SUBSCRIPTIONS.

9. The Entrance Fees and Subscriptions of Members, Associate Members, Graduates, and Associates shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

EXPULSION.

10. If any Member, Associate Member, Graduate, or Associate shall leave his subscription in arrear for two years, and shall fail to pay such arrears within three months after a written application has been sent to him by the Secretary, his name may be struck off the register by the Council at any time afterwards, and he shall thereupon cease to have any rights as a Member, Associate Member, Graduate, or Associate, but he shall nevertheless continue liable to pay the arrears of subscription due at the time of his name being so struck off: provided always that this regulation shall not be construed to compel the Council to remove any name, if they shall be satisfied the same ought to be retained.

11. The Council may refuse to continue to receive the subscriptions of any person who shall have wilfully acted in contravention of the regulations of the Institution, or who shall in the opinion of the Council have been guilty of such conduct as shall have rendered him unfit to continue to belong to the Institution; and may remove his name from the register, and he shall thereupon cease to be a Member, Associate Member, Graduate, or Associate (as the case may be) of the Institution.

GENERAL MEETINGS.

12. The General Meetings shall consist of the Ordinary Meetings, the Annual General Meeting, and of Special Meetings as hereinafter defined.

13. The Annual General Meeting shall take place in London in one of the first four months of every year. The Ordinary Meetings shall take place at such times and places as the Council shall determine.

14. A Special Meeting may be convened at any time by the Council, and shall be convened by them whenever a requisition signed by twenty Members or Associate Members of the Institution,

specifying the object of the Meeting, is left with the Secretary. If for fourteen days after the delivery of such requisition a Meeting be not convened in accordance therewith, the Requisitionists or any twenty Members or Associate Members of the Institution may convene a Special Meeting in accordance with the requisition. All Special Meetings shall be held in London.

15. Seven clear days' notice of every Meeting, specifying generally the nature of any special business to be transacted at any Meeting, shall be given to every person on the register of the Institution, except as provided by Article 35, and no other special business shall be transacted at such Meeting; but the non-receipt of such notice shall not invalidate the proceedings of such Meeting. No notice of the business to be transacted (other than such ballot lists as may be requisite in case of elections) shall be required in the absence of special business.

16. Special business shall include all business for transaction at a Special Meeting, and all business for transaction at every other Meeting, with the exception of the reading and confirmation of the Minutes of the previous Meeting, the election of Members, Associate Members, Graduates, and Associates, and the reading and discussion of communications as prescribed by the By-laws, or by any regulations of the Council made in accordance with the By-laws.

PROCEEDINGS AT GENERAL MEETINGS.

17. Twenty Members or Associate Members shall constitute a quorum for the purpose of a Meeting other than a Special Meeting. Thirty Members or Associate Members shall constitute a quorum for the purpose of a Special Meeting.

18. If within thirty minutes after the time fixed for holding the Meeting a quorum is not present, the Meeting shall be dissolved, and all matters which might, if a quorum had been present, have been done at a Meeting (other than a Special Meeting) so dissolved, may forthwith be done on behalf of the Meeting by the Council.

19. The President shall be Chairman at every Meeting, and in his absence one of the Vice-Presidents; and in the absence of all Vice-Presidents a Member of Council shall take the chair; and if no Member of Council be present and willing to take the chair, the Meeting shall elect a Chairman.

20. The decision of a General Meeting shall be ascertained by show of hands, unless, after the show of hands, a poll is forthwith demanded; and by a poll, when a poll is thus demanded. The manner of taking a show of hands or a poll shall be in the discretion of the Chairman; and an entry in the Minutes, signed by the Chairman, shall be sufficient evidence of the decision of the General Meeting. Each Member and Associate Member shall have one vote and no more. In case of equality of votes the Chairman shall have a second or casting vote: provided that this Article shall not interfere with the provisions of the By-laws as to election by ballot.

21. The acceptance or rejection of votes by the Chairman shall be conclusive for the purpose of the decision of the matter in respect of which the votes are tendered: provided that the Chairman may review his decision at the same Meeting, if any error be then pointed out to him.

BY-LAWS.

22. The By-laws set forth in the schedule to these Articles, and such altered and additional By-laws as shall be substituted or added as hereinafter mentioned, shall regulate all matters by the Articles left to be prescribed by the By-laws, and all matters which consistently with the Articles shall be made the subject of By-laws. Alterations in, and additions to, the By-laws, may be made only by resolution of the Members and Associate Members at an Annual General Meeting, after notice of the proposed alteration or addition has been announced at the previous Ordinary Meeting, and not otherwise.

COUNCIL.

23. The Council of the Institution shall be chosen from the Members only, and shall consist of one President, six Vice-Presidents, twenty-one ordinary Members of Council, and of the Past-Presidents. The President, two Vice-Presidents, and seven Members of Council (other than Past-Presidents), shall retire at each Annual General Meeting, but shall be eligible for re-election. The Vice-Presidents and Members of Council to retire each year shall, unless the Council agree otherwise among themselves, be chosen from those who have been longest in office, and in cases of equal seniority shall be determined by ballot.

24. The election of a President, Vice-Presidents, and Members of Council, to supply the place of those retiring at the Annual General Meeting, shall be conducted in such manner as shall be prescribed by the By-laws from time to time in force, as provided by the Articles.

25. The Council may supply any casual vacancy in the Council (including any casual vacancy in the office of President) which shall occur between one Annual General Meeting and another; and the President, Vice-Presidents, or Members of Council so appointed by the Council shall retire at the succeeding Annual General Meeting. Vacancies not filled up at any such Meeting shall be deemed to be casual vacancies within the meaning of this Article.

OFFICERS.

26. The Treasurer, Secretary, and other employés of the Institution shall be appointed and removed in the manner prescribed by the By-laws from time to time in force, as provided by the Articles. Subject to the express provisions of the By-laws, the officers and servants of the Institution shall be appointed and removed by the Council.

27. The powers and duties of the officers of the Institution shall, subject to any express provision in the By-laws, be determined by the Council.

POWERS AND PROCEDURE OF COUNCIL.

28. The Council may regulate their own procedure, and delegate any of their powers and discretions to any one or more of their body, and may determine their own quorum: if no other number is prescribed, three members of Council shall form a quorum.

29. The Council shall manage the property, proceedings, and affairs of the Institution, in accordance with the By-laws from time to time in force.

30. The Treasurer may, with the consent of the Council, invest in the name of the Institution any moneys not immediately required for the purposes of the Institution in or upon any of the following investments (that is to say):—

(A) The Public Funds, or Government Stocks of the United Kingdom, or of any Foreign or Colonial Government guaranteed by the Government of the United Kingdom.

(B) Real or Leasehold Securities, or in the purchase of real or leasehold properties in Great Britain or Ireland.

(C) Debentures, Debenture Stock, or Guaranteed or Preference Stock, of any Company incorporated by special Act of Parliament, the ordinary Shareholders whereof shall at the time of such investment be in actual receipt of half-yearly or yearly dividends.

(D) Stocks, Shares, Debentures, or Debenture Stock of any Railway, Canal, or other Company, the undertaking whereof is leased to any Railway Company at a fixed or fixed minimum rent.

(E) Stocks, Shares, or Debentures of any East Indian Railway or other Company, which shall receive a contribution from Her Majesty's East Indian Government of a fixed annual percentage on their capital, or be guaranteed a fixed annual dividend by the same Government.

(F) The security of rates levied by any corporate body empowered to borrow money on the security of rates, where such borrowing has been duly authorised by Act of Parliament.

31. The Council may, with the authority of a resolution of the Members and Associate Members in General Meeting, borrow moneys for the purposes of the Institution on the security of the property of the Institution, or otherwise at their discretion.

32. No act done by the Council, whether *ultra vires* or not, which shall receive the express or implied sanction of the Members and Associate Members in General Meeting, shall be afterwards impeached by any member of the Institution on any ground whatsoever, but shall be deemed to be an act of the Institution.

NOTICES.

33. A notice may be served by the Council upon any Member, Associate Member, Graduate, Associate, or Honorary Life Member, either personally or by sending it through the post in a prepaid letter addressed to him at his registered place of abode.

34. Any notice, if served by post, shall be deemed to have been served at the time when the letter containing the same would be delivered in the ordinary course of the post; and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office.

35. No Member, Associate Member, Graduate, Associate, or Honorary Life Member, not having a registered address within the United Kingdom, shall be entitled to any notice; and all proceedings may be had and taken without notice to such member, in the same manner as if he had had due notice.

By-laws.

(*Last Revision, February* 1894.)

MEMBERSHIP.

1. Candidates for admission as Members must be persons not under twenty-five years of age, who, having occupied during a sufficient period a responsible position in connection with the practice or science of Engineering, may be considered by the Council to be qualified for election.

2. Candidates for admission as Associate Members must be persons not under twenty-five years of age, who, being engaged in such work as is connected with the practice or science of Engineering, may be considered by the Council to be qualified for election, though not yet to occupy positions of sufficient responsibility, or otherwise not yet to be eligible, for admission as Members. They may afterwards be transferred at the discretion of the Council to the class of Members.

3. Candidates for admission as Graduates must be persons holding subordinate situations, and not under eighteen years of age. They must furnish evidence of training in the principles as well as in the practice of Engineering. Before attaining the age of twenty-six years, those elected after 1892 must apply for election as Members, Associate Members, or Associates, if they desire to remain connected with the Institution; they may not continue Graduates after attaining the age of twenty-six.

4. Candidates for admission as Associates must be persons not under twenty-five years of age, who from their scientific attainments or position in society may be considered eligible by the Council. They may afterwards be transferred at the discretion of the Council to the class of Associate Members or of Members.

5. The Council shall have the power to nominate as Honorary Life Members persons of eminent scientific acquirements, who in their opinion are eligible for that position.

6. The Members, Associate Members, Graduates, Associates, and Honorary Life Members shall have notice of and the privilege to attend all Meetings; but Members and Associate Members only shall be entitled to vote thereat.

7. The abbreviated distinctive Titles for indicating the connection with the Institution of Members, Associate Members, Graduates, Associates, or Honorary Life Members thereof, shall be the following:—for Members, M. I. Mech. E.; for Associate Members, A. M. I. Mech. E.; for Graduates, G. I. Mech. E.; for Associates, A. I. Mech. E.; for Honorary Life Members, Hon. M. I. Mech. E.

8. Subject to such regulations as the Council may from time to time prescribe, any Member, Associate Member, or Associate may upon application to the Secretary obtain a Certificate of his membership or other connection with the Institution. Every such certificate shall remain the property of, and shall on demand be returned to, the Institution.

ENTRANCE FEES AND SUBSCRIPTIONS.

9. Each Member shall pay an Annual Subscription of £3, and on election an Entrance Fee of £2.

10. Each Associate Member shall pay an Annual Subscription of £2 10*s.*, and on election an Entrance Fee of £1. If afterwards transferred by the Council to the class of Members, he shall pay on transference 10*s.* additional subscription for the current year, and £1 additional entrance fee.

11. Each Graduate shall pay an Annual Subscription of £1 10*s.*, but no Entrance Fee. Any Graduate elected prior to 1893, if transferred by the Council to the class of Associate Members, shall pay on transference £1 additional subscription for the current year, but no additional entrance fee; if transferred direct to the class of Members, he shall pay on transference £1 10*s.* additional subscription for the current year, and £1 additional entrance fee.

12. Each Associate shall pay an Annual Subscription of £2 10*s*., and on election an Entrance Fee of £1. If afterwards transferred by the Council to the class of Associate Members, he shall pay on transference no additional subscription or entrance fee. If transferred direct to the class of Members, he shall pay on transference 10*s*. additional subscription for the current year, and £1 additional entrance fee; except Associates elected prior to 1893, who shall pay no additional entrance fee on transference.

13. All subscriptions shall be payable in advance, and shall become due on the 1st day of January in each year; and the first subscription of Members, Associate Members, Graduates, and Associates, shall date from the 1st day of January in the year of their election.

14. In the case of Members, Associate Members, Graduates, or Associates, elected in the last three months of any year, the first subscription shall cover both the year of election and the succeeding year.

15. Any Member, Associate Member, or Associate, whose subscription is not in arrear, may at any time compound for his subscription for the current and all future years by the payment of Fifty Pounds, if paid in any one of the first five years of his membership. If paid subsequently, the sum of Fifty Pounds shall be reduced by One Pound per annum for every year of membership after five years. All compositions shall be deemed to be capital moneys of the Institution.

16. The Council may at their discretion reduce or remit the annual subscription, or the arrears of annual subscription, of any Member or Associate Member who shall have been a subscribing member of the Institution for twenty years, and shall have become unable to continue the annual subscription provided by these By-laws.

17. No Proceedings or Ballot Lists or Certificates shall be sent to Members, Associate Members, Graduates, or Associates, who are in

arrear with their subscriptions more than twelve months, and whose subscriptions have not been remitted by the Council as hereinbefore provided.

ELECTION OF MEMBERS, ASSOCIATE MEMBERS, GRADUATES, AND ASSOCIATES.

18. A recommendation for admission according to Form A or B in the Appendix shall be forwarded to the Secretary, and by him be laid before the next Meeting of the Council. The recommendation must be signed by not less than five Members or Associate Members if the application be for admission as a Member or Associate Member or Associate, and by three Members or Associate Members if it be for a Graduate.

19. All elections shall take place by ballot, four-fifths of the votes given being necessary for election.

20. All applications for admission shall be communicated by the Secretary to the Council for their approval previous to being inserted in the ballot list for election, and the approved ballot list shall be signed by the President and forwarded to the Members and Associate Members. The name of any Candidate approved by the Council for admission as an Associate Member or an Associate shall not be inserted in the ballot list until he has signed the Form C in the Appendix. The ballot list shall specify the name, occupation, and address of the Candidates, and also by whom proposed and seconded. The lists shall be opened only in the presence of the Council on the day of election, by a Committee to be appointed for that purpose.

21. The Elections shall take place at the General Meetings only.

22. When the proposed Candidate is elected, the Secretary shall give him notice thereof according to Form D; but his name shall not be added to the register of the Institution until he shall have paid his Entrance Fee and first Annual Subscription, and signed the Form E in the Appendix.

23. In case of non-election, no mention thereof shall be made in the Minutes, nor any notice given to the unsuccessful Candidate.

24. An Associate Member desirous of being transferred to the class of Members, or an Associate to the class of Associate Members or of Members, shall forward to the Secretary a recommendation according to Form F in the Appendix, signed by not less than five Members or Associate Members, which shall be laid before the next meeting of Council for their approval. On their approval being given, the Secretary shall notify the same to the Candidate according to Form G; but his name shall not be added to the list of Members or Associate Members until he shall have signed the Form H, and shall have paid the additional entrance fee (if any), and the additional subscription (if any) for the current year.

ELECTION OF PRESIDENT, VICE-PRESIDENTS, AND MEMBERS OF COUNCIL.

25. Candidates shall be put in nomination at the General Meeting preceding the Annual General Meeting, when the Council are to present a list of their retiring Members who offer themselves for re-election; any Member or Associate Member shall then be entitled to add to the list of Candidates. The ballot list of the proposed names shall be forwarded to the Members and Associate Members. The ballot lists shall be opened only in the presence of the Council on the day of election, by a Committee to be appointed for that purpose.

APPOINTMENT AND DUTIES OF OFFICERS.

26. The Treasurer shall be a Banker, and shall hold the uninvested funds of the Institution, except the moneys in the hands of the Secretary for current expenses. He shall be appointed by the Members and Associate Members at a General or Special Meeting, and shall hold office at the pleasure of the Council.

27. The Secretary of the Institution shall be appointed, as and when a vacancy occurs, by the Members and Associate Members at a General or Special Meeting, and shall be removable by the Council upon six months' notice from any day. The Secretary shall give the same notice. The Secretary shall devote the whole of his time to the work of the Institution, and shall not engage in any other business or profession.

28. It shall be the duty of the Secretary, under the direction of the Council, to conduct the correspondence of the Institution; to attend all meetings of the Institution, and of the Council, and of Committees; to take minutes of the proceedings of such meetings; to read the minutes of the preceding meetings, and all communications that he may be ordered to read; to superintend the publication of such papers as the Council may direct; to have the charge of the library; to direct the collection of the subscriptions, and the preparation of the account of expenditure of the funds; and to present all accounts to the Council for inspection and approval. He shall also engage (subject to the approval of the Council) and be responsible for all persons employed under him, and set them their portions of work and duties. He shall conduct the ordinary business of the Institution, in accordance with the Articles and By-laws and the directions of the President and Council; and shall refer to the President in any matters of difficulty or importance, requiring immediate decision.

MISCELLANEOUS.

29. All Papers shall be submitted to the Council for approval, and after their approval shall be read by the Secretary at the General Meetings, or by the Author with the consent of the Council; or, if so directed by the Council, shall be printed in the Proceedings without having been read at a General Meeting.

30. All books, drawings, communications, &c., shall be accessible to the members of the Institution at all reasonable times.

31. All communications to the Meetings shall be the property of the Institution, and be published only by the authority of the Council.

32. None of the property of the Institution—books, drawings, &c.—shall be taken out of the premises of the Institution without the consent of the Council.

33. All donations to the Institution shall be enumerated in the Annual Report of the Council presented to the Annual General Meeting.

34. The General Meetings shall be conducted as far as practicable in the following order:—

1st. The Chair to be taken at such hour as the Council may direct from time to time.

2nd. The Minutes of the previous Meeting to be read by the Secretary, and, after being approved as correct, to be signed by the Chairman.

3rd. The Ballot Lists, previously opened by the Council, to be presented to the Meeting, and the new Members, Associate Members, Graduates, and Associates elected to be announced.

4th. Papers approved by the Council to be read by the Secretary, or by the Author with the consent of the Council.

35. Each Member or Associate Member shall have the privilege of introducing one friend to any of the Meetings; but, during such portion of any meeting as may be devoted to any business connected with the management of the Institution, visitors shall be requested by the Chairman to withdraw, if any Member or Associate Member asks that this shall be done.

36. Every Member, Associate Member, Graduate, Associate, or Visitor, shall write his name and residence in a book to be kept for the purpose, on entering each Meeting.

37. The President shall ex officio be member of all Committees of Council.

38. Seven clear days' notice at least shall be given of every meeting of the Council. Such notice shall specify generally the business to be transacted by the meeting. No business involving the expenditure of the funds of the Institution (except by way of payment of current salaries and accounts) shall be transacted at any Council meeting unless specified in the notice convening the meeting.

39. The Council shall present the yearly accounts to the Annual General Meeting, after being audited by a professional accountant, who shall be appointed annually by the Members and Associate Members at a General or a Special Meeting, at a remuneration to be then fixed by the Members and Associate Members.

40. Any member wishing to have a copy of the Papers sent to him for consideration beforehand can do so by sending in his name once in each year to the Secretary; and a copy of all Papers shall then be forwarded to him as early as possible prior to the date of the Meeting at which they are intended to be read.

41. At any Meeting of the Institution any member shall be at liberty to re-open the discussion upon any Paper which has been read or discussed at the preceding Meeting; provided that he signifies his intention to the Secretary at least one month previously to the Meeting, and that the Council decide to include it in the notice of the Meeting as part of the business to be transacted.

APPENDIX.

FORM A.

Mr. being years of age, and desirous of admission into The Institution of Mechanical Engineers, we, the undersigned proposer and seconder from our personal knowledge, and the three other signers from trustworthy information, propose and recommend him as a proper person to belong to the Institution.

Witness our hands, this day of

Members or Associate Members.

FORM B.

Mr. born on being desirous of admission into The Institution of Mechanical Engineers, we, the undersigned proposer and seconder from our personal knowledge, and the other signer or signers from trustworthy information, propose and recommend him as a proper person to become a Graduate thereof.

Witness our hands, this day of

Members or Associate Members.

FORM C.

If elected an of The Institution of Mechanical Engineers, I, the undersigned, do hereby engage to ratify my election by signing the form of agreement (E) and paying the Entrance Fee and Annual Subscription in conformity with the By-laws.

Witness my hand, this day of

FORM D.

Sir,—I have to inform you that on the you were elected a of The Institution of Mechanical Engineers. For the ratification of your election in conformity with the rules, it is requisite that the enclosed form be returned to me with your signature, and that your Entrance Fee and first Annual Subscription be paid, the amounts of which are and respectively. If these be not received within two months from the present date, the election will become void.

I am, Sir, Your obedient servant,

Secretary.

FORM E.

I, the undersigned, being elected a of The Institution of Mechanical Engineers, do hereby agree that I will be governed by the regulations of the said Institution, as they are now formed or as they may hereafter be altered; that I will advance the objects of the Institution as far as shall be in my power, and will attend the Meetings thereof as often as I conveniently can: provided that, whenever I shall signify in writing to the Secretary that I am desirous of withdrawing from the Institution, I shall (after the payment of any arrears which may be due by me at that period) be free from this obligation.

Witness my hand, this day of

FORM F.

Mr. being years of age, and desirous of being transferred into the class of of The Institution of Mechanical Engineers, we, the undersigned, from our personal knowledge recommend him as a proper person to be so transferred by the Council.

Witness our hands, this day of

Members or Associate Members.

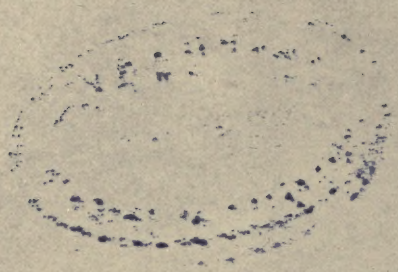
FORM G.

Sir,—I have to inform you that the Council have approved of your being transferred to the class of of The Institution of Mechanical Engineers. For the ratification of your transference in conformity with the rules, it is requisite that the enclosed form be returned to me with your signature, and that your additional Entrance Fee and additional Annual Subscription for the current year be paid, the amounts of which are and respectively. If these be not received within two months from the present date, the transference will become void.

I am, Sir, Your obedient servant,

Secretary.

FORM H.

I, the undersigned, having been transferred to the class of of The Institution of Mechanical Engineers, do hereby agree that I will be governed by the regulations of the said Institution, as they now exist, or as they may hereafter be altered; that I will advance the objects of the Institution as far as shall be in my power, and will attend the Meetings thereof as often as I conveniently can: provided that, whenever I shall signify in writing to the Secretary that I am desirous of withdrawing from the Institution, I shall (after the payment of any arrears which may be due by me at that period) be free from this obligation.

Witness my hand, this day of